DRAWING NO.	SHEET NO.	TOTAL SHEETS
28 LI 1-1-C29		

DEPARTMENT OF PUBLIC WORKS
CANADA
BUILDING CONSTRUCTION BRANCH

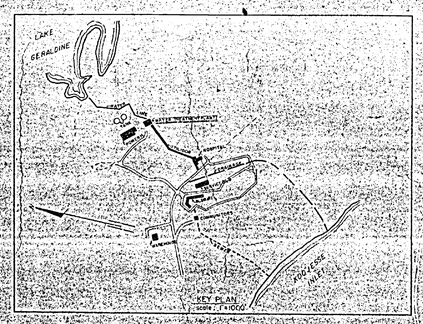
CONTRACT NO. CA-62-1-28

TYPE OF WORK WATER TREATMENT & WATER SUPPLY

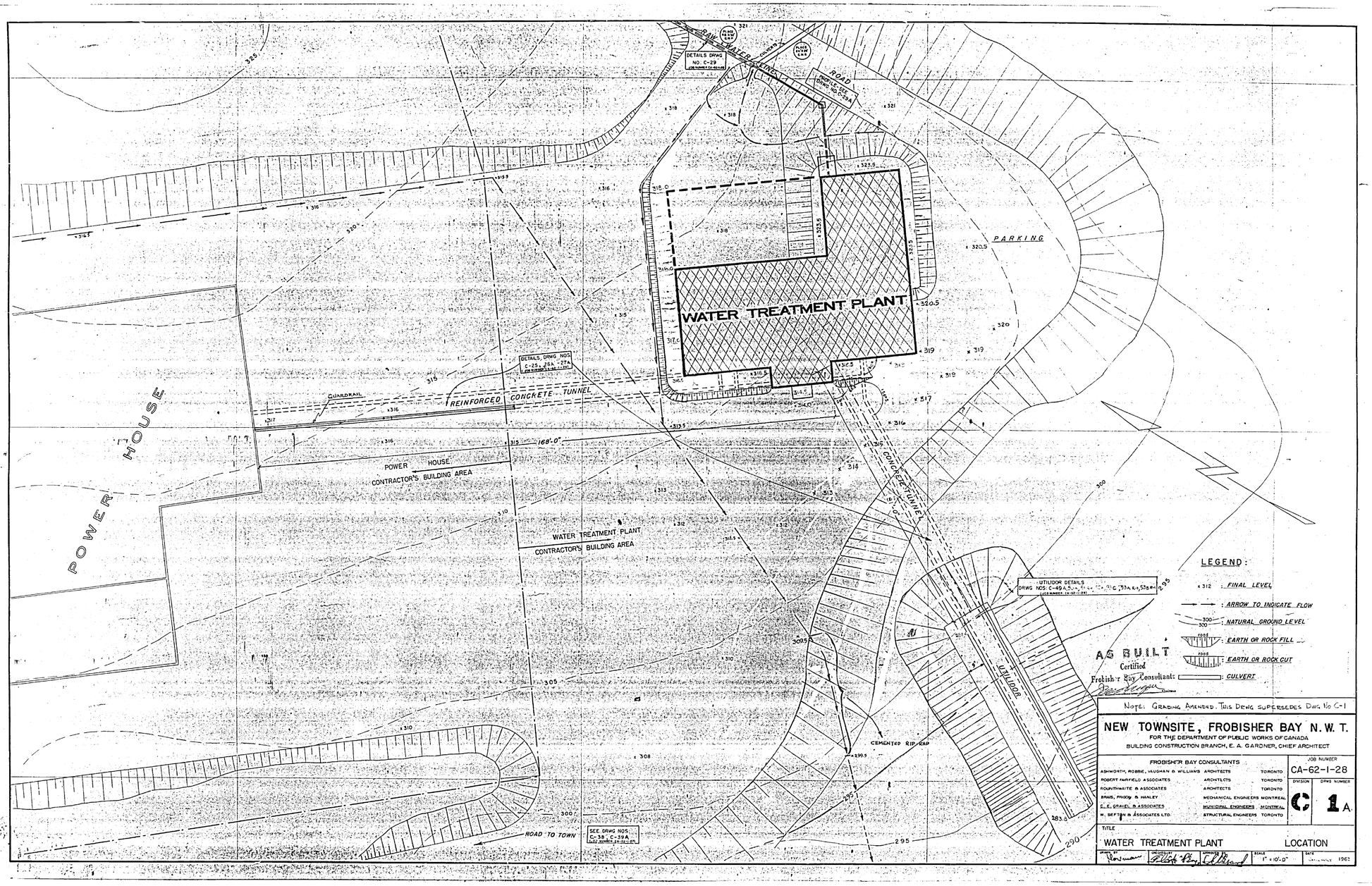
CONTRACT LOCATION
FROBISHER BAY N.W.T.

FROBISHER BAY CONSULTANTS:

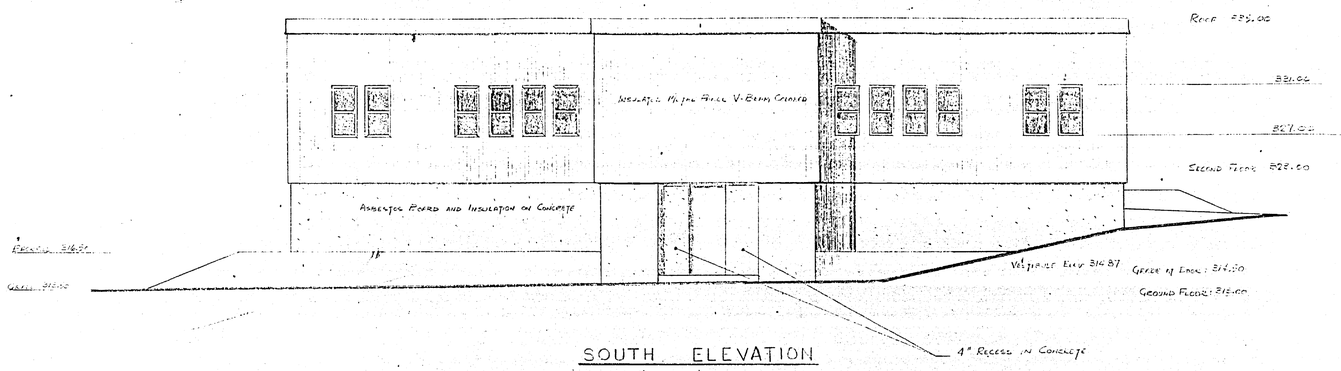
ASHWORTH, ROBBIE VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO
BRAIS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL
C.E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO



POOR ORIGINAL 30X



POOR ORIGINAL 30X

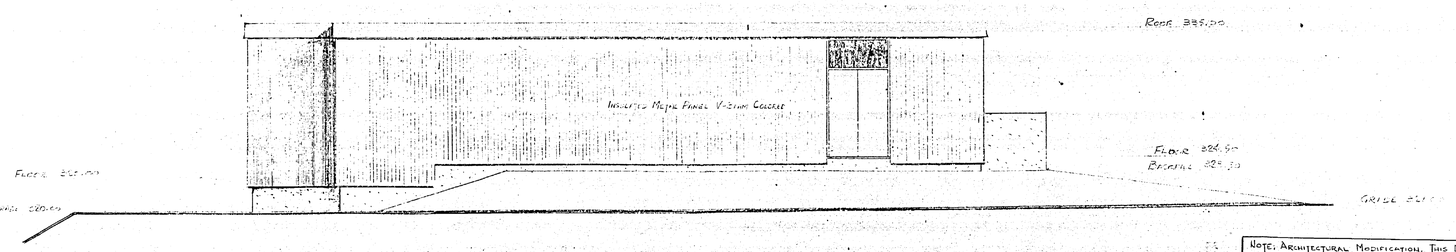


SOUTH ELEVATION

SCALE 1/4"-1'-0"

Note: All insulated metal panel shall have stiffening ribs where this occurs. All window openings & doors shall have spandrel flashing.

More details showing asbestos board and insulation are shown on Drawing No. C-102-103-104



EAST ELEVATION

SCALE 1/4"-1'-0

Note, Architectural Modification. This Dwg. supersedes Dwg. C-2

AS BUILT
Certified
Frobisher Bay Consultants

NEW TOWNSITE, FROBISHER BAY N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E.A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS
ROBERT MITCHELL & ASSOCIATES — ARCHITECTS — TORONTO
DUNTEMANN & ASSOCIATES — ARCHITECTS — TORONTO
ROY LEE, PYKE & MANLEY — MECHANICAL ENGINEERS — MONTREAL
J. GRAVES & ASSOCIATES — MUNICIPAL ENGINEERS — MONTREAL
M. SEFTON & ASSOCIATES — STRUCTURAL ENGINEERS — TORONTO

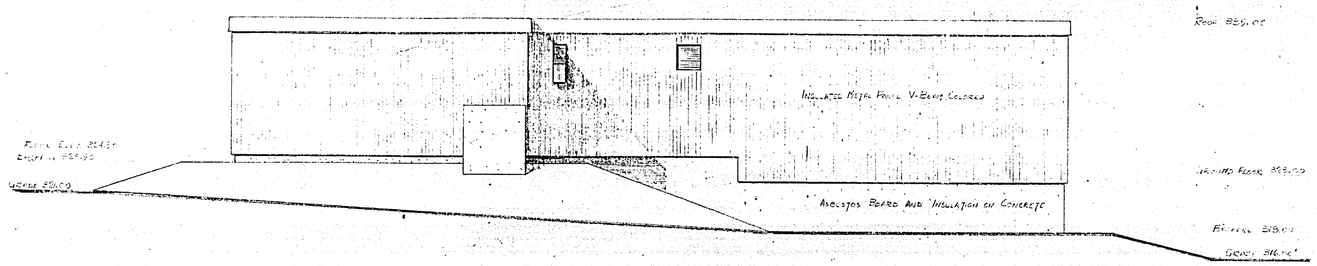
JOB NUMBER CA-62-1-28
DIVISION C
DWG. NUMBER 2A

WATER TREATMENT PLANT — ELEVATIONS: EAST, SOUTH

DATE FEBRUARY, 1963

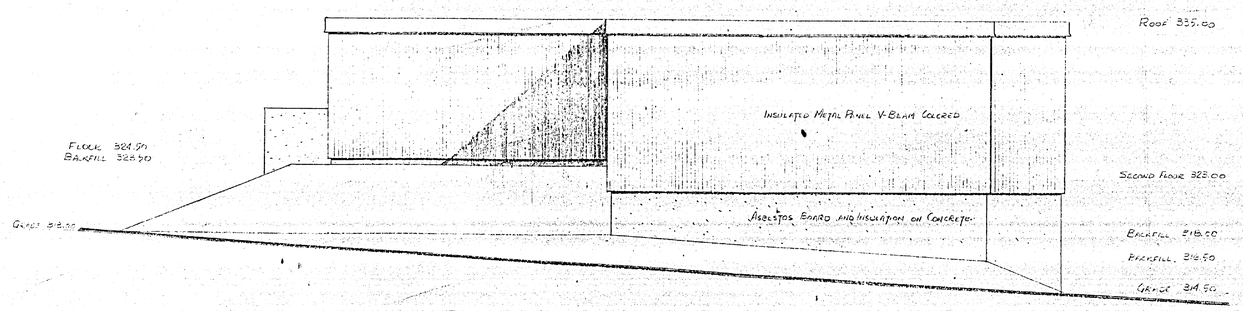
POOR ORIGINAL

30X



NORTH ELEVATION
Scale: 1/4"=1'-0"

Note:
All insulated metal panel siding and soffits, fascia, corner trim, ends retaining members & edges shall be as specified. Panel colour shall be as selected by Architect.
Most details regarding asbestos board and insulation are shown on drawings Nos. C-102, -103, -104



WEST ELEVATION
Scale: 1/4"=1'-0"

AS BUILT
Certified
Frobisher Bay Consultants

Notes: Architectural Revision. This Drwg Supersedes C-3.

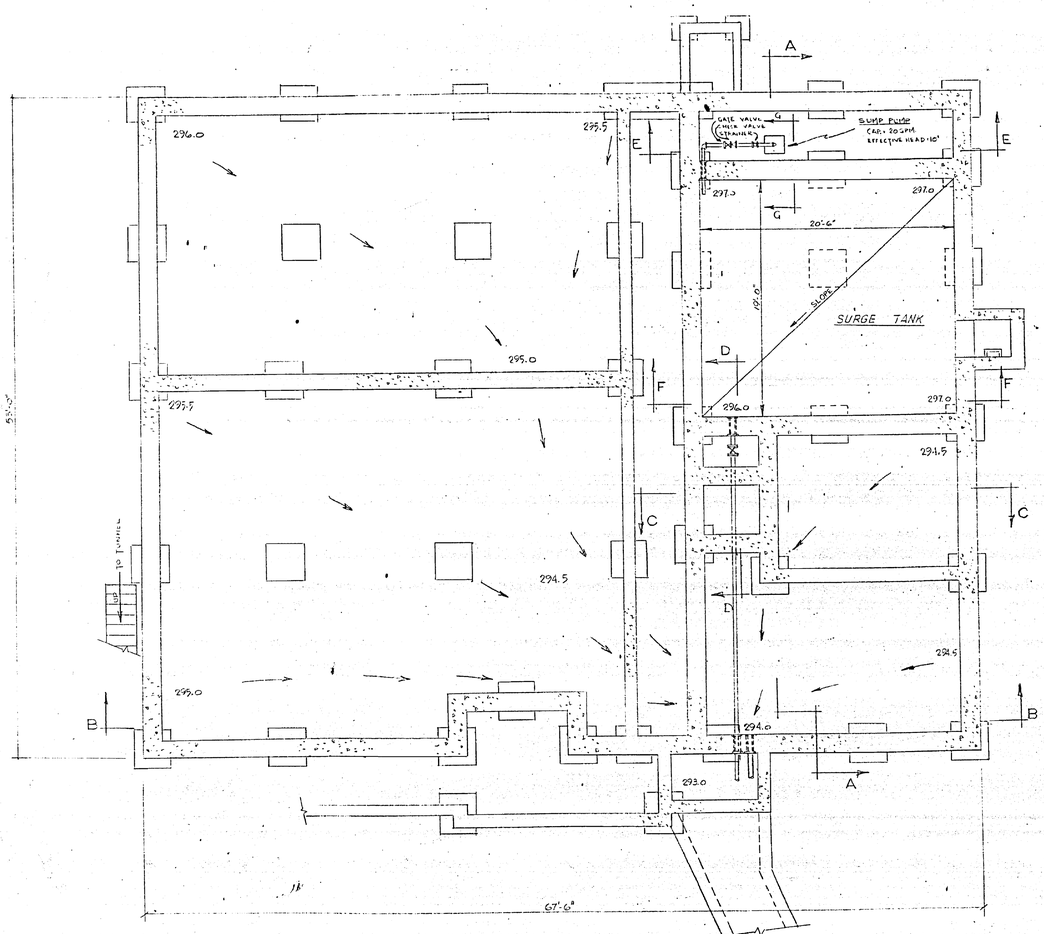
NEW TOWNSITE, FROBISHER BAY, N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E.A.T. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS
JOB NUMBER CA-62-I-28
DIVISION C DRWG NUMBER 3A

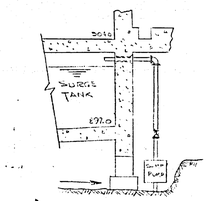
WATER TREATMENT PLANT — ELEVATIONS: NORTH, WEST

Approved Feb/63

POOR ORIGINAL
30X



FOUNDATIONS - DRAINAGE
Scale: 1/4" = 1'-0"



COUPE G-G
Scale: 1/4" = 1'-0"

REFERENCE:
STRUCTURE - SEE DRAWING C-19

AS BUILT
Certified
Frobisher Bay Consultants

REVISION 1
AMENDED TO CONFORM TO DWG C-19

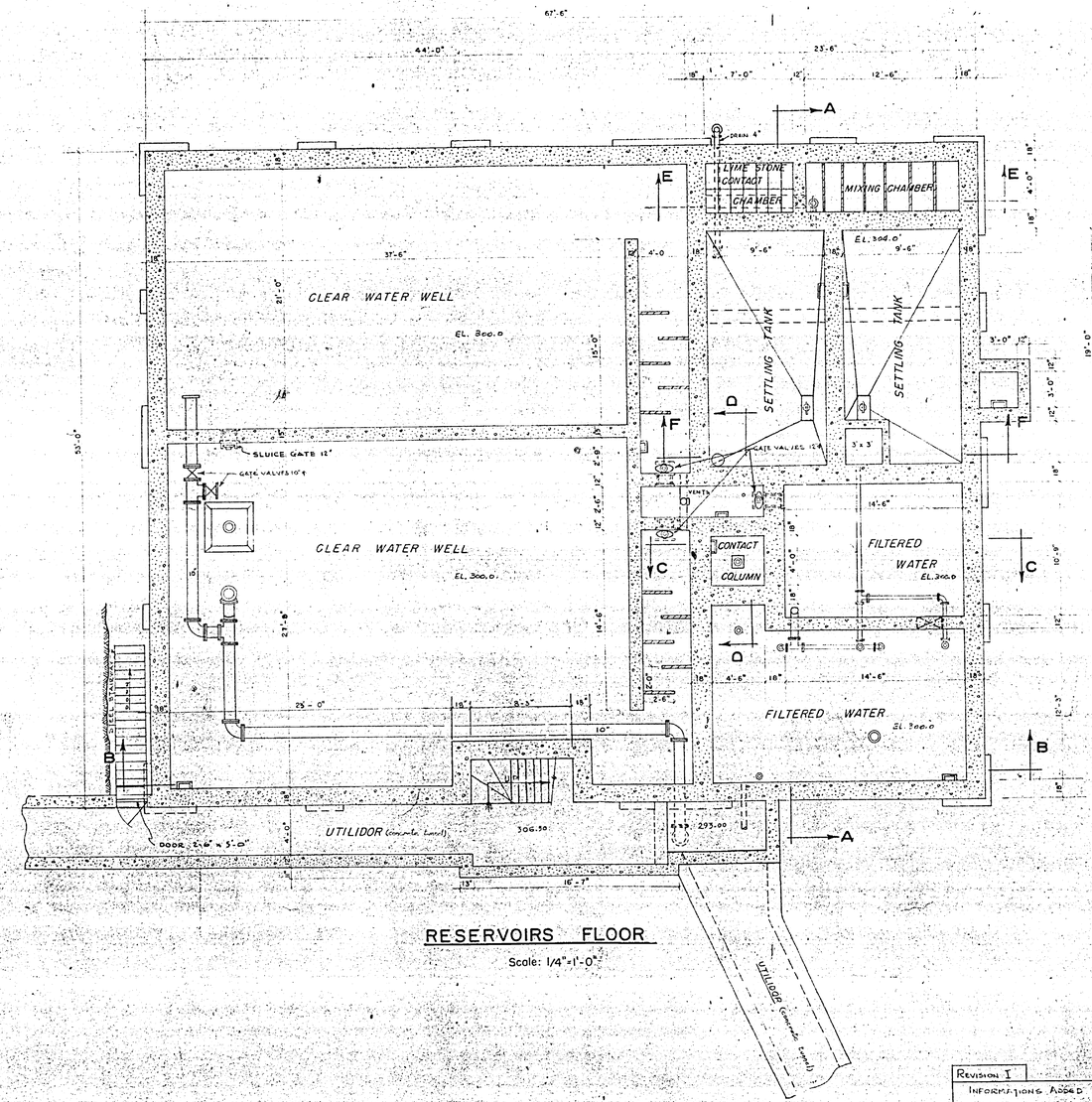
NEW TOWNSITE, FROBISHER BAY, N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS
JOB NUMBER CA-62-1-28
DIVISION C
DRWG NUMBER 4 R-1

TITLE
WATER TREATMENT PLANT
FOUNDATIONS

DRAWN BY Ross Tuttle | TRACED BY | CHECKED BY | APPROVED BY | DATE FEBRUARY 1963
DESIGNED BY | SCALE 1/4"=1'-0" | DATE 23 April 1963

POOR ORIGINAL
30X



RESERVOIRS FLOOR

Scale: 1/4"=1'-0"

AS BUILT
Certified
Frobisher Bay Consultants
Date

NEW TOWNSITE, FROBISHER BAY N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT.

FROBISHER BAY CONSULTANTS

ASHWORTH, HOBBS VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO
BRAIS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL
W. SEXTON & ASSOCIATES LTD	STRUCTURAL ENGINEERS	TORONTO

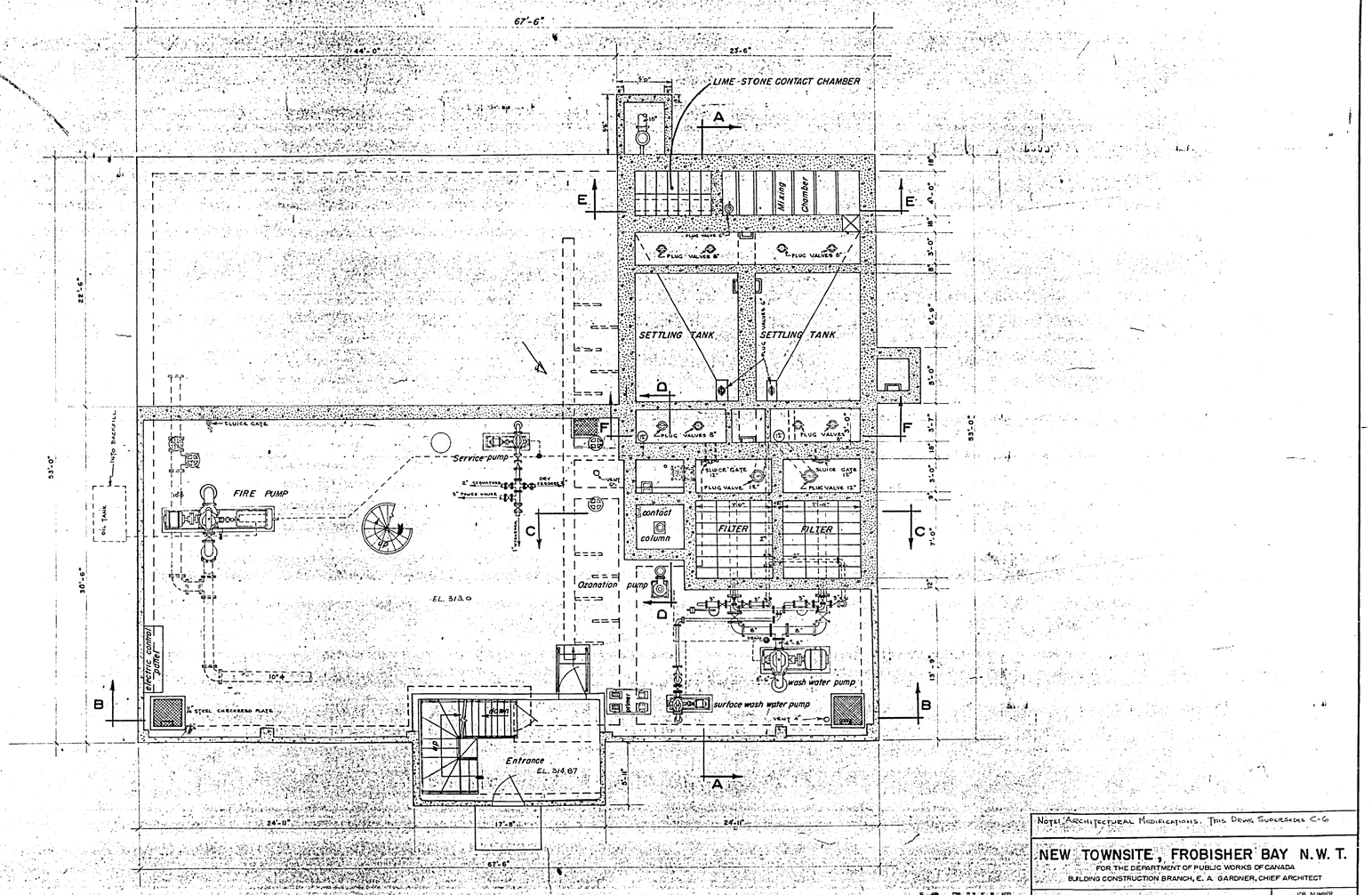
JOB NUMBER CA-62-1-28
DIVISION C DRG NUMBER 5 R1

Revision 1
Informations Added

TITLE
WATER TREATMENT PLANT RESERVOIRS FLOOR

Drawn by Jean Lefebvre | Checked by Date | Approved by | Date February 1962 | Traced by Thom Lefebvre | Figures by J.B. Robert | Approved by E. Gravel | Scale 1/4"=1'-0" | Date 23 April 1962

POOR ORIGINAL
30X



PUMPS FLOOR
SCALE: ¼"-1'-0"

AS BUILT
Certified
Frobisher Bay Consultants

NOTE: ARCHITECTURAL MODIFICATIONS. THIS DRWG SUPERSEDES C-6

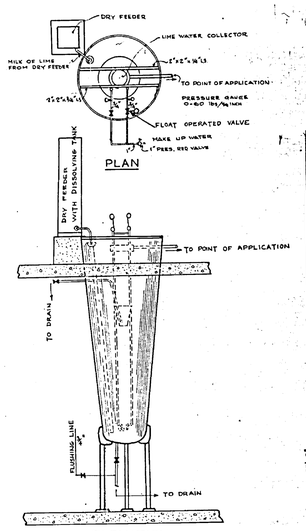
NEW TOWNSITE, FROBISHER BAY N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS			JOB NUMBER
ASHWORTH, ROBBIE, VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO	CA-62-I-28
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION / DRWG NUMBER
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO	C / 6A
BRAIS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
C. F. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. HUTTON & ASSOCIATES LTD	STRUCTURAL ENGINEERS	TORONTO	

TITLE
WATER TREATMENT PLANT PUMPS FLOOR

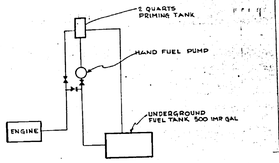
WORK BY: Registered | DESIGNED: E. Bobe | APPROVED: [signature] | SCALE: 1/8"=1'-0" | DATE: FEBRUARY 1962

POOR ORIGINAL 30X



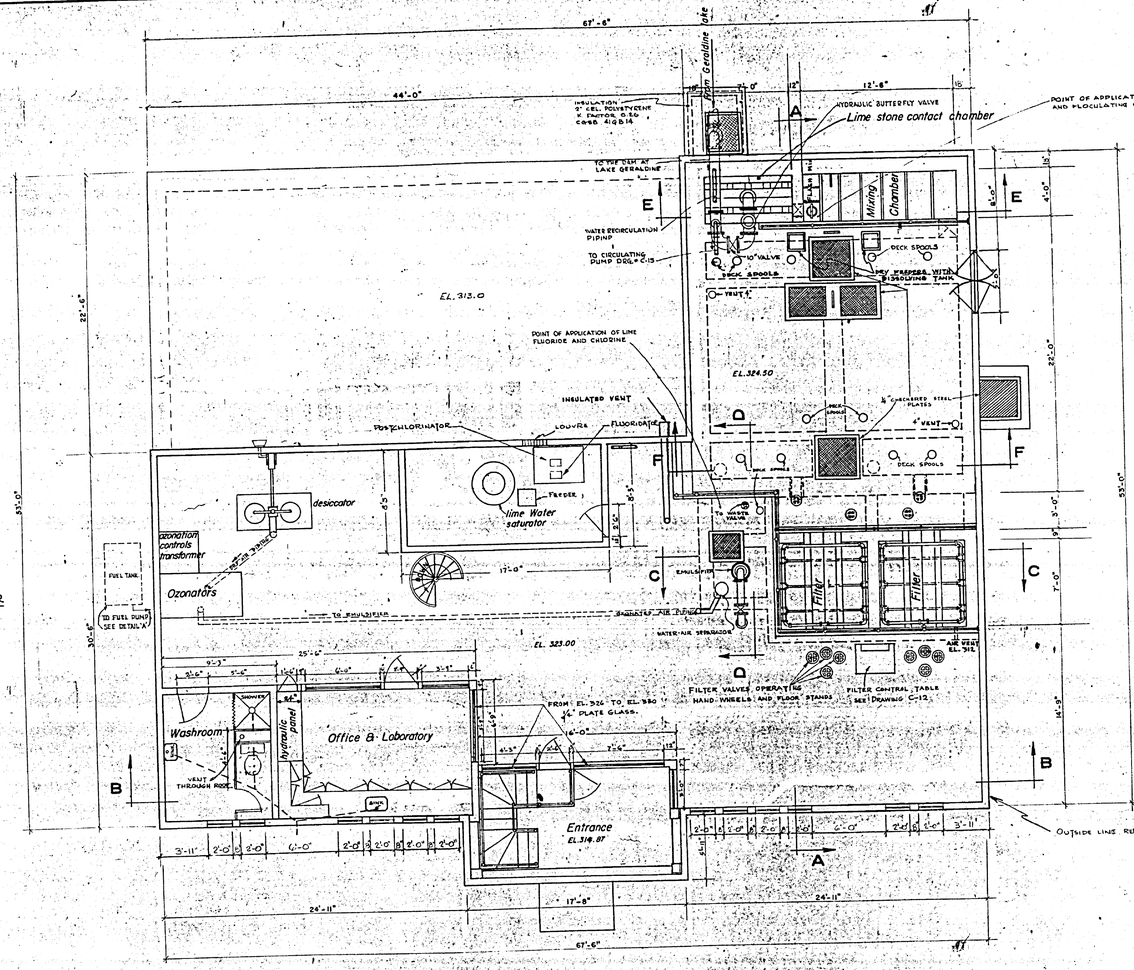
DETAIL OF LIME WATER SATURATOR

SCALE: ½"=1'-0"



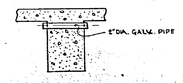
DETAIL 'A'

UNDERWRITER APPROVED FUEL SYSTEM.



FILTERS FLOOR

Scale: ¼"=1'-0"



DETAIL OF AIR VENT THROUGH EACH BEAM

NO SCALE

AS BUILT

Certified

Frobisher Bay Consultants

Note: Architectural Modifications. This Dwg supersedes C-7

NEW TOWNSITE, FROBISHER BAY N.W.T.

FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA

BUILDING CONSTRUCTION BRANCH, E.A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS			JOB NUMBER
ASHWORTH, ROBBIE VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO	CA-62-1-28
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION / DRG NUMBER
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO	C / 7A
IRWIS, FRIDON & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
C.-E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

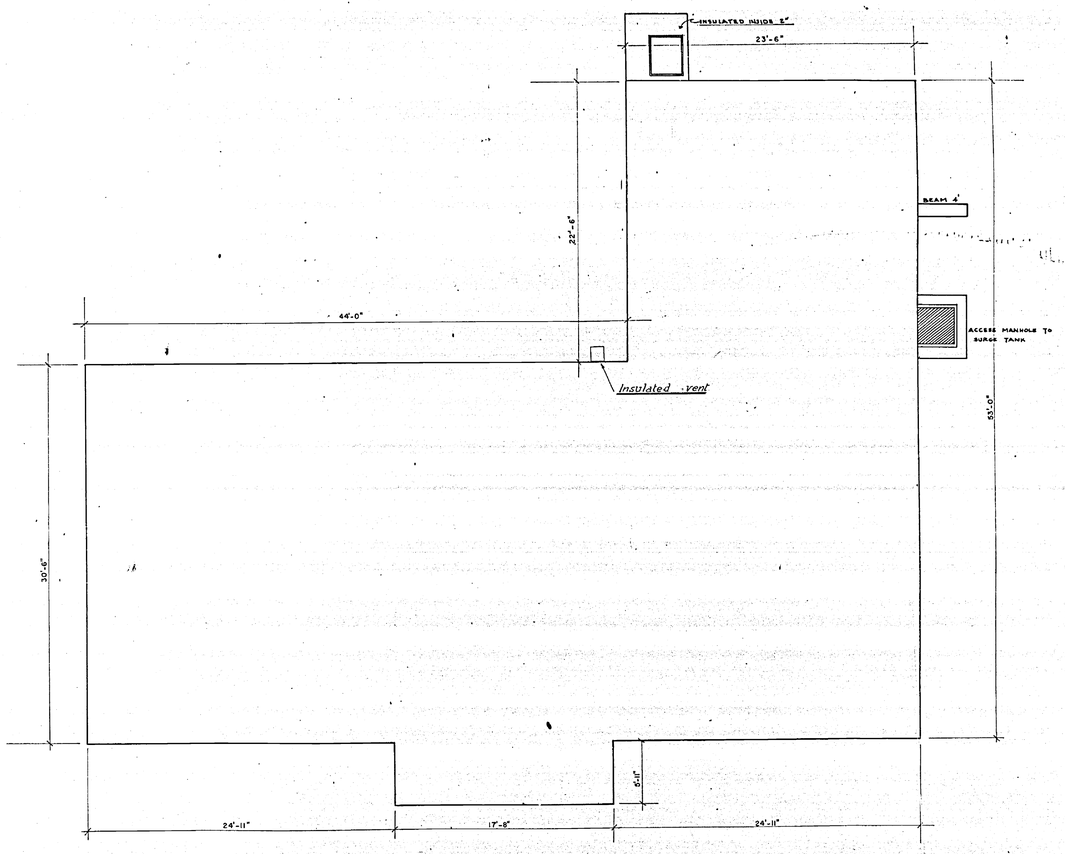
TITLE

WATER TREATMENT PLANT — FILTERS FLOOR

DRAWN BY	CHECKED BY	APPROVED BY	SCALE	DATE
[illegible]	[illegible]	[illegible]	¼"=1'-0"	FEBRUARY 1963

POOR ORIGINAL

30X



ROOF

Scale: 1/4" = 1'-0"

AS BUILT

Certified

Frobisher Bay Consultants

Chairman

NEW TOWNSITE, FROBISHER BAY N.W.T.

FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA

BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS			JOB NUMBER
ASHWORTH, ROBBIE VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO	CA-62-1-28
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION C / DRG NUMBER 8
FOUNTAINWAITE & ASSOCIATES	ARCHITECTS	TORONTO	
BRAIS, FROON & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
C. E. BRAVELS & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

TITLE

WATER TREATMENT PLANT — ROOF

DRAWN BY Yvon Lebeau | CHECKED BY J B Robert | APPROVED | SCALE 1/4" = 1'-0" | DATE 23 April 1962

POOR ORIGINAL

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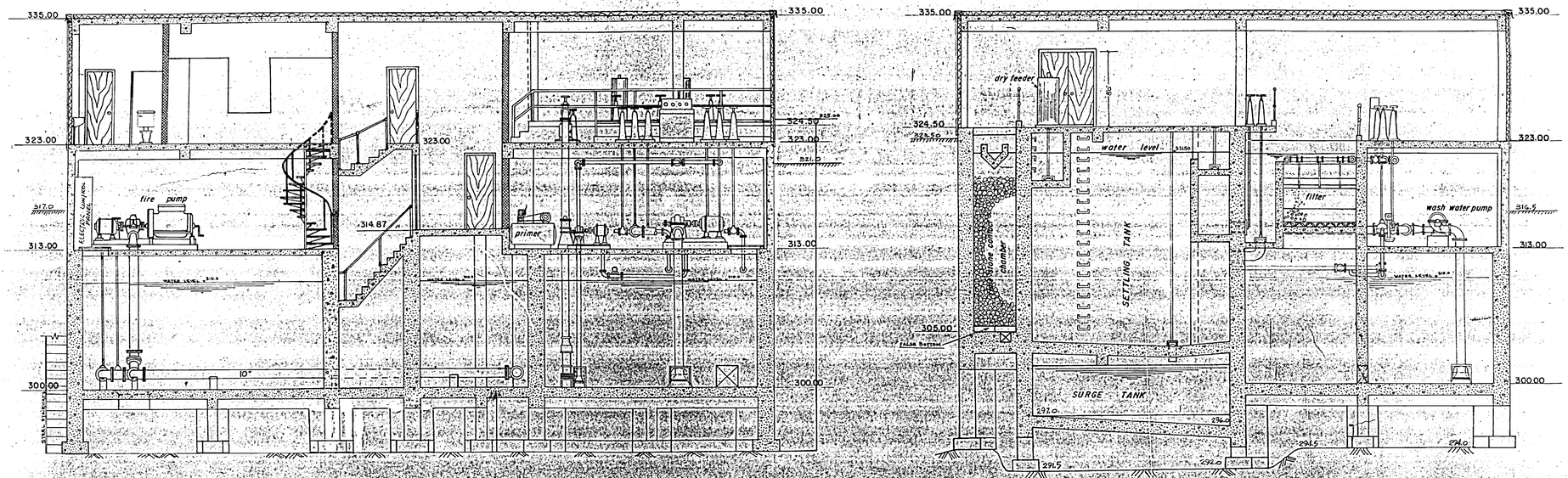

SECTION B-B
Scale: ¼" = 1'-0"

SECTION A-A
Scale: ¼" = 1'-0"

AS BUILT
Certified
Frobisher Bay Consultants

NOTE: ARCHITECTURAL MODIFICATIONS. THIS DRAWING SUPERSEDES C-9

NEW TOWNSITE, FROBISHER BAY, N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E.A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS

ARCHITECTS	TORONTO	
ROBERT FAIRFIELD & ASSOCIATES, ARCHITECTS	TORONTO	
ROLAND T. ROGERS & ASSOCIATES, ARCHITECTS	TORONTO	
BRAIS, PRIDDLE & HADLEY, MECHANICAL ENGINEERS	MONTREAL	
C. DAVIES & ASSOCIATES, MUNICIPAL ENGINEERS	MONTREAL	
J. SEPTON & ASSOCIATES LTD., STRUCTURAL ENGINEERS	TORONTO	

JOB NUMBER: CA-62-1-28
DIVISION: C
DRWG NUMBER: 9A

TITLE: WATER TREATMENT PLANT. SECTIONS: A-A, B-B

DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: ¼" = 1'-0"
DATE: FEBRUARY 1963

POOR ORIGINAL
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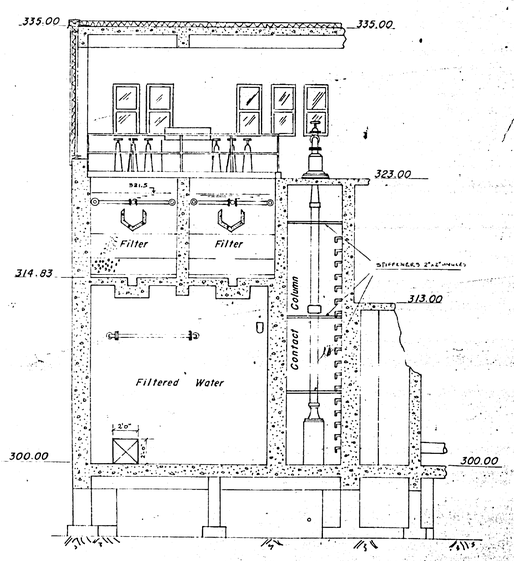

SECTION C-C

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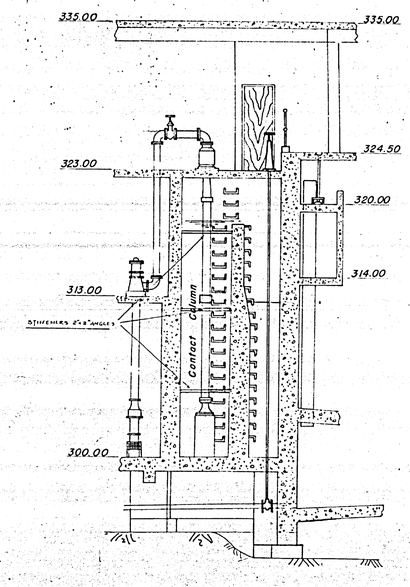


SECTION D-D

Scale: 1/4" = 1'-0"

Note: Architectural Modifications. This Drwg supersedes C-10

AS BUILT
Certified
Frobisher Bay Consultants

NEW TOWNSITE, FROBISHER BAY N.W.T.

FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA

BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT

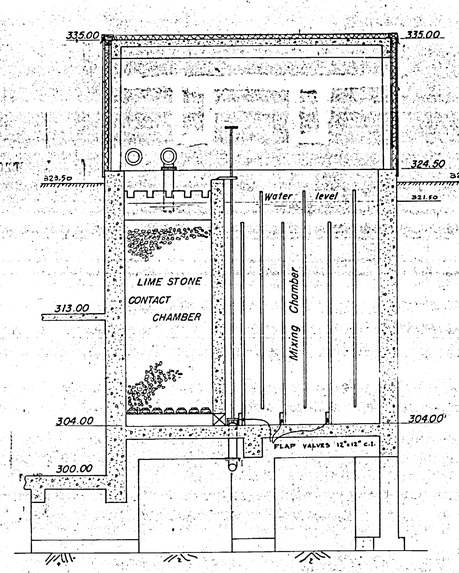
FROBISHER BAY CONSULTANTS			JOB NUMBER
ASHWORTH, ROBBIE VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO	CA-62-1-28
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION: C
ROUNTHWAITE & ALDOCIATES	ARCHITECTS	TORONTO	DRWG NUMBER: 10 A
BRAIS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

TITLE: WATER TREATMENT PLANT — SECTIONS: C-C, D-D

DRWN BY: R.N.T. | CHECKED: W. Sefton | APPROVED: [signature] | SCALE: 1/4"=1'-0" | DATE: FEBRUARY 5

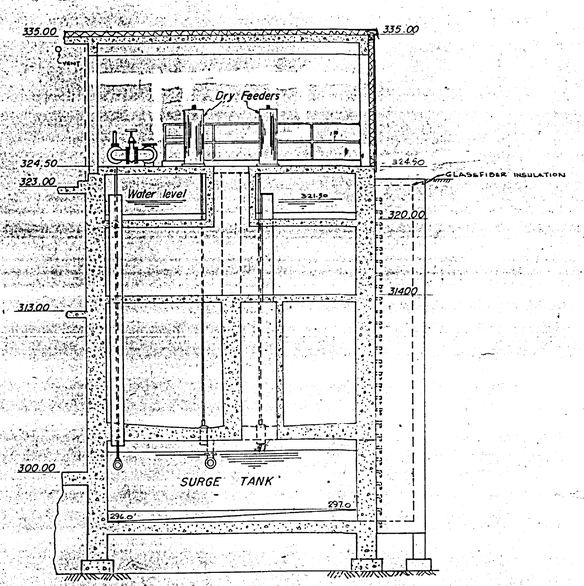
POOR ORIGINAL

30X



SECTION E-E

Scale: ¼" = 1'-0"



SECTION F-F

Scale: ¼" = 1'-0"

NOTE: ARCHITECTURAL MODIFICATIONS. THIS DRWG SUPERSEDES C-11

AS BUILT
Certified
Frobisher Bay Consultants

NEW TOWNSITE, FROBISHER BAY N.W.T.

FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT

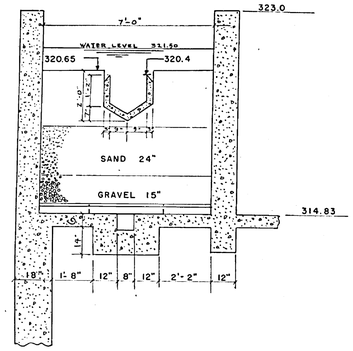
FROBISHER BAY CONSULTANTS			JOB NUMBER
ASHWORTH, ROBBIE VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO	CA-62-1-28
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION / DRWG NUMBER
ROUNTY-WAITE & ASSOCIATES	ARCHITECTS	TORONTO	C 11 A
BRAIS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

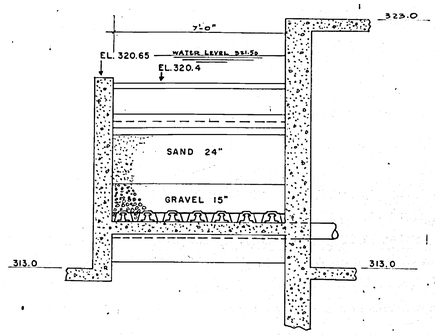
TITLE: WATER TREATMENT PLANT SECTIONS: E-E, F-F

DRAWN BY [illegible] CHECKED [illegible] APPROVED [illegible] SCALE ¼" = 1'-0" DATE FEBRUARY 1963

POOR ORIGINAL

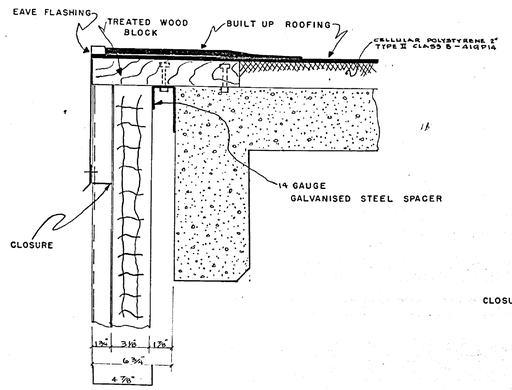
30X





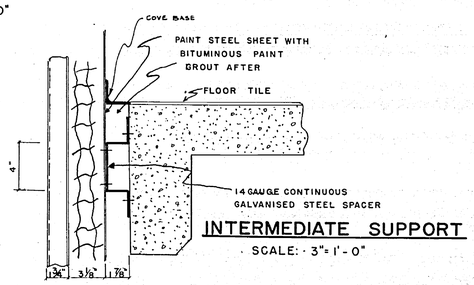
FILTER BOTTOM

SCALE: ½" = 1'-0"



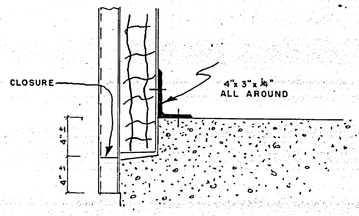
EAVE DETAIL

SCALE: 3" = 1'-0"



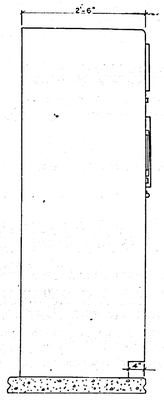
INTERMEDIATE SUPPORT

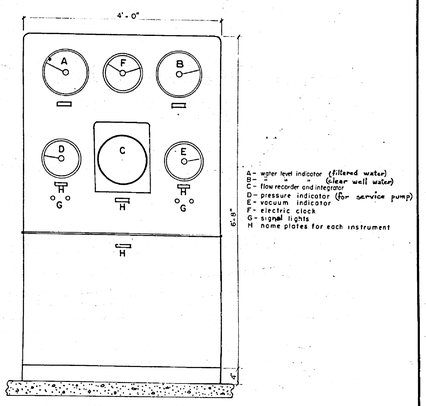
SCALE: 3" = 1'-0"



BASE DETAIL

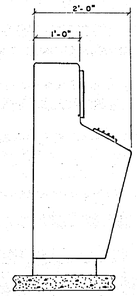
SCALE: 3" = 1'-0"

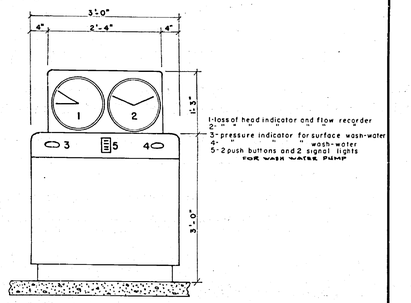




HYDRAULIC CONTROL PANEL

SCALE: 1" = 1'-0"





CONTROL TABLE

SCALE: 1" = 1'-0"

AS BUILT
Certified
Frobisher Bay Consultants

NEW TOWNSITE, FROBISHER BAY N.W.T.

FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA

BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT

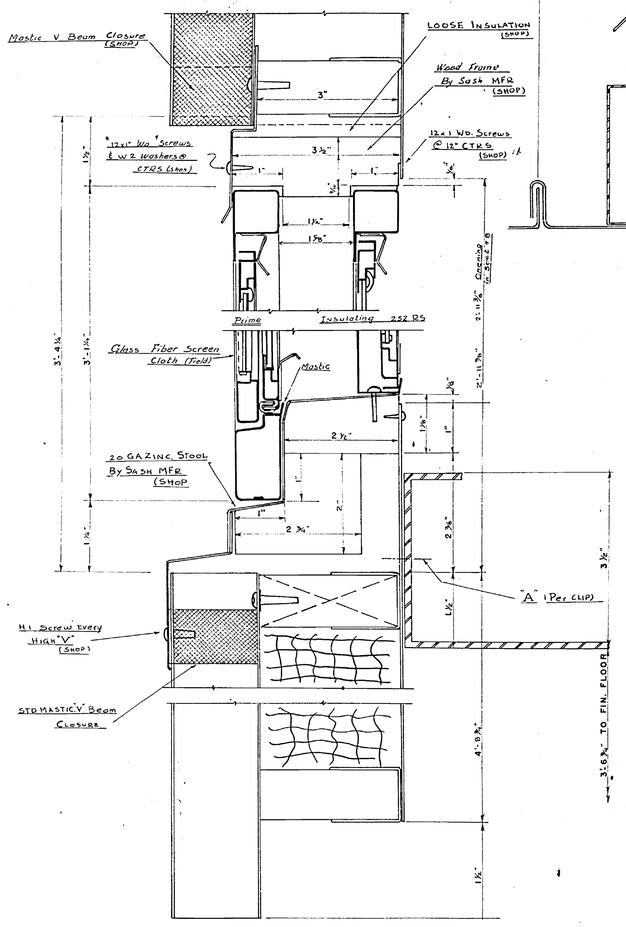
FROBISHER BAY CONSULTANTS			JOB NUMBER
ASHWORTH, ROBBIE VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO	CA-62-1-28
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION / DRWG NUMBER
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO	C 12
BRAIS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
J. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

TITLE: WATER TREATMENT PLANT — DETAILS

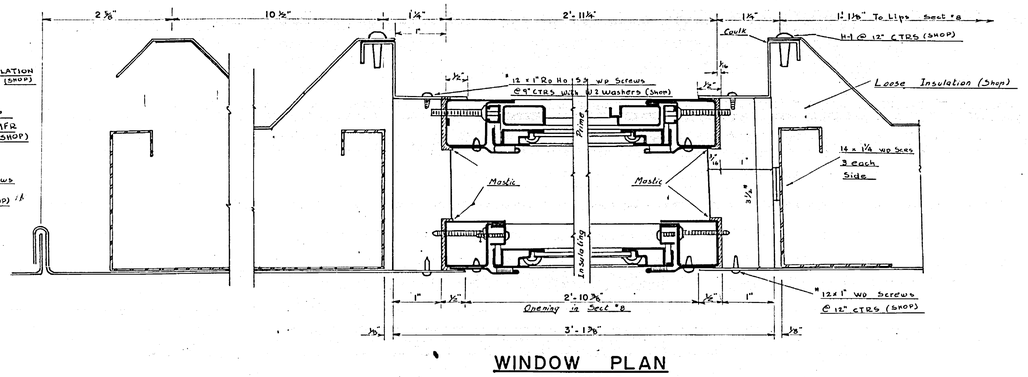
DRAWN BY: [illegible] | CHECKED BY: J. B. Robert | APPROVED: [illegible] | SCALE: As noted | DATE: 23 April 1962

POOR ORIGINAL

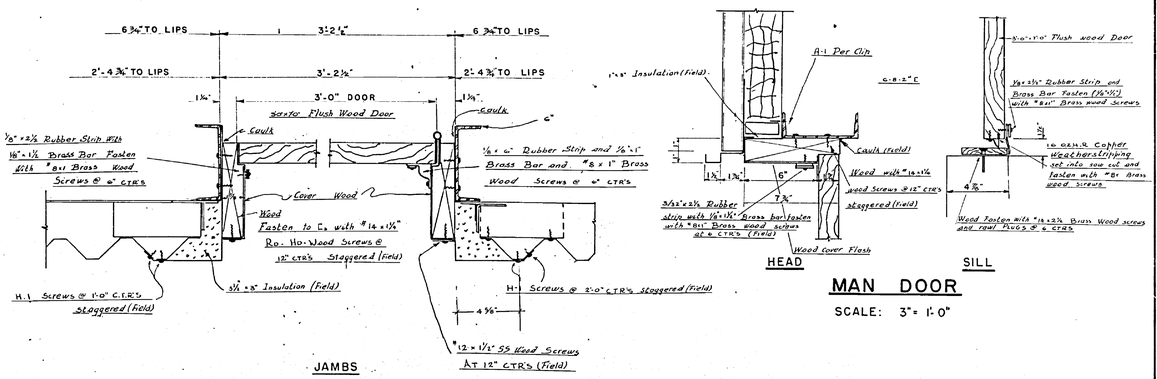
30X



WINDOW ELEVATION
FULL SCALE



WINDOW PLAN
FULL SCALE



JAMBS

MAN DOOR
SCALE: 3"= 1'-0"

MAN DOOR
SCALE: 3"= 1'-0"

AS BUILT
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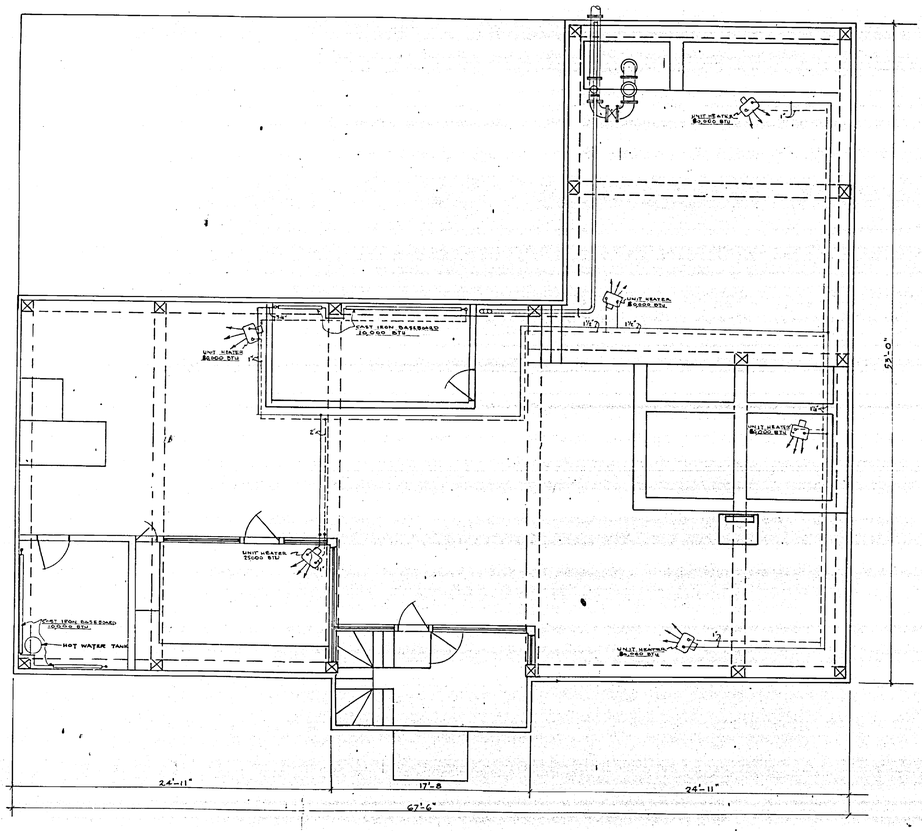
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION / DRG NUMBER
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO	C 13
BRAIS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

TITLE
WATER TREATMENT PLANT DETAILS

DRAWN BY	CHECKED BY	APPROVED BY	SCALE	DATE
Wm Brown	J.G. Robert	E.A. Gardner	As noted	23 April 1962

POOR ORIGINAL
30X



FILTERS FLOOR

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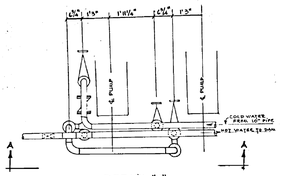
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION / DRWG NUMBER
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO	C / 14
BRAIS, PRIGON & HAILEY	MECHANICAL ENGINEERS	MONTREAL	
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

TITLE
WATER TREATMENT PLANT FILTERS FLOOR HEATING

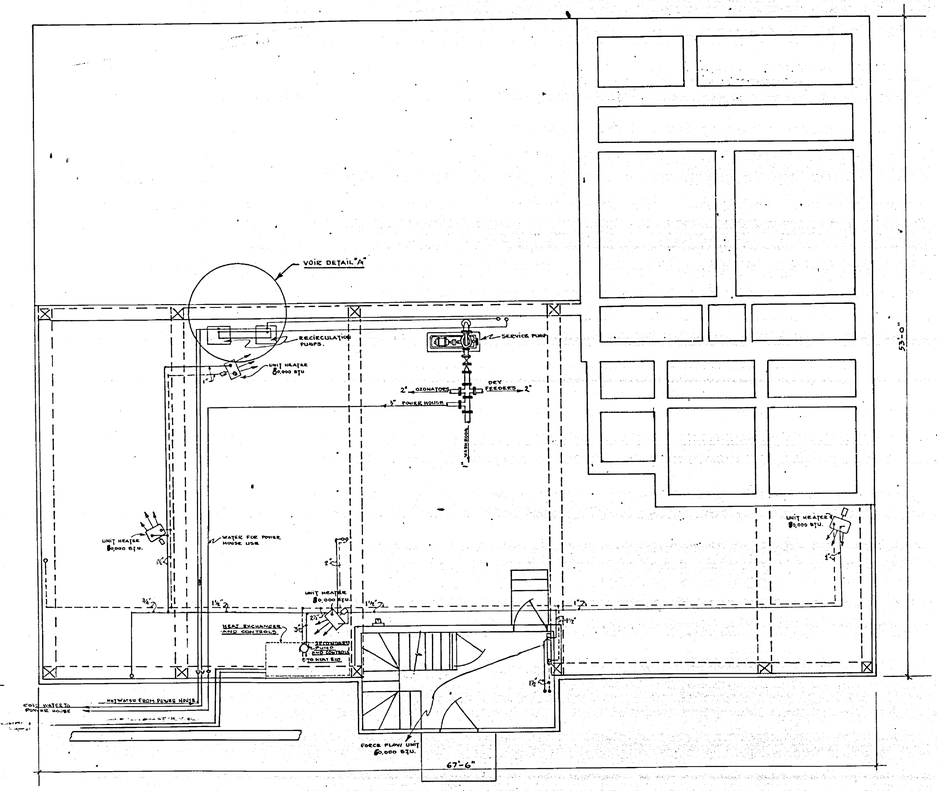
DRAWN BY	CHECKED BY	APPROVED BY	SCALE	DATE
Yvon Lessard	J.B. Roberts	[illegible]	1/4"=1'-0"	23 April 1962

POOR ORIGINAL
30X



SECTION "A-A"
SCALE: 1/2" = 1'0"

DETAIL "A"
PLAN
HEATING WATER PIPING ARR'G'T
SCALE 1/2" = 1'0"



PUMPS FLOOR

AS BUILT
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FROBISHER BAY CONSULTANTS			JOB NUMBER
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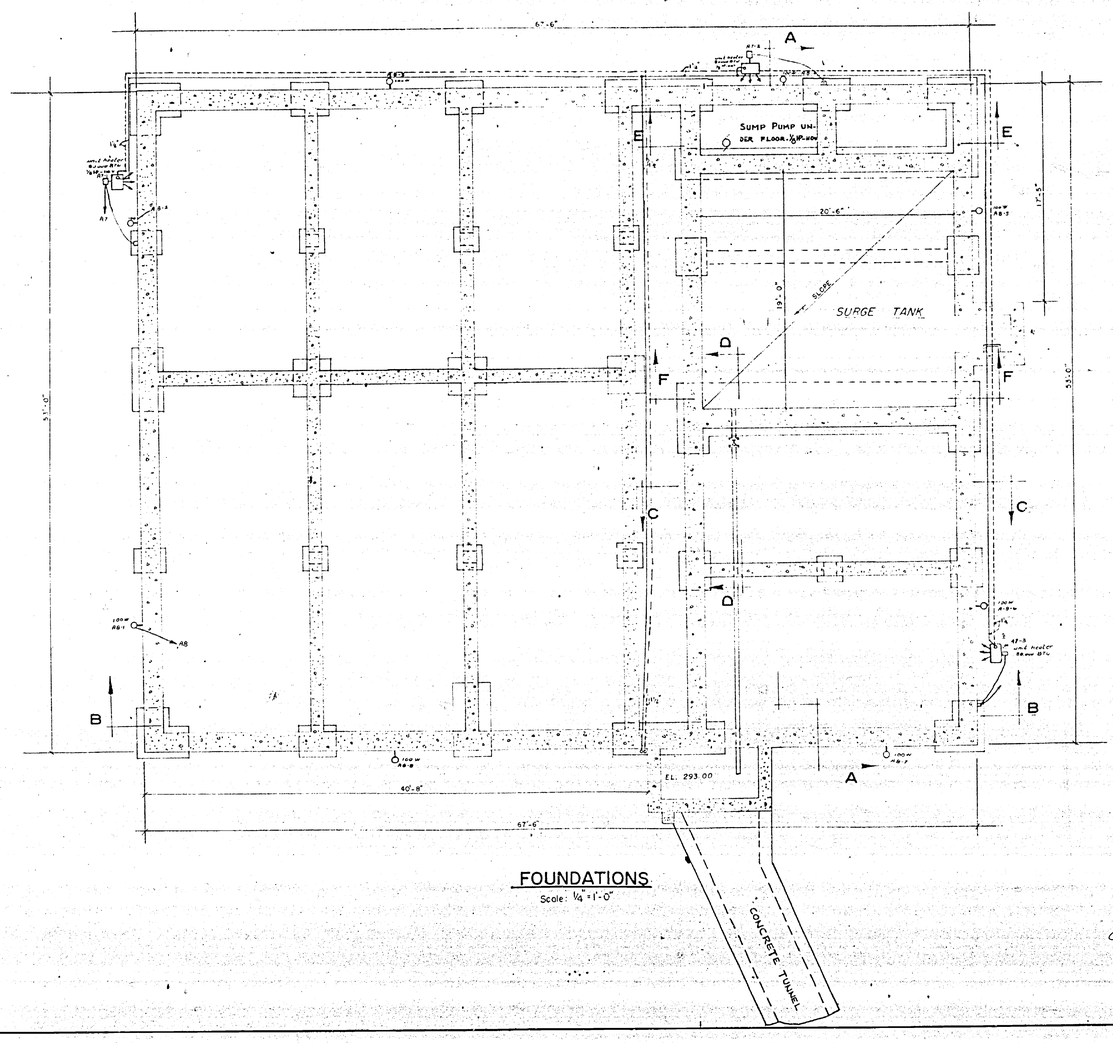
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION / DRWG NUMBER
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO	C 15
BRAIS, FRGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

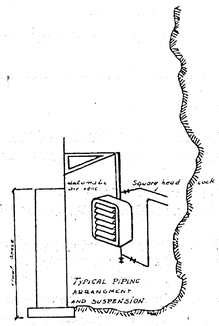
TITLE: WATER TREATMENT PLANT — PUMPS FLOOR HEATING

DRAWN BY: Jim & Bruce | CHECKED BY: J.G. Robert | APPROVED BY: E.A. Gardner | SCALE: 1/2"=1'-0" | DATE: 23 April 1962

POOR ORIGINAL
30X



FOUNDATIONS
Scale: 1/8" = 1'-0"



REFERENCES:

ELECTRICITY: SEE DRAWING C-17
HEATING: SEE DRAWING C-15
STRUCTURE: SEE DRAWING C-19

AS BUILT
Certified
Frobisher Bay Consultants

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MACLENNAN & ASSOCIATES ARCHITECTS TORONTO
BRAIS, KNOWLTON & HENLEY MECHANICAL ENGINEERS MONTREAL
J. E. JAMES & ASSOCIATES MUNICIPAL ENGINEERS MONTREAL
H. SEXTON & ASSOCIATES LTD. STRUCTURAL ENGINEERS TORONTO

DRAWING NO. CA-62-1-28
C 16

TITLE
WATER TREATMENT PLANT
HEAT & ELECT. FOUNDATIONS

Groenhoven | Fr. E. J. Reg. | E. J. Brisset | 1/8" = 1'-0" | 25 April 1962

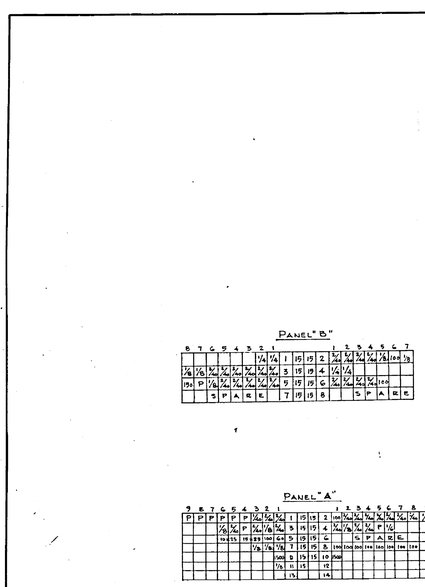
POOR ORIGINAL
30X

PANEL "B"

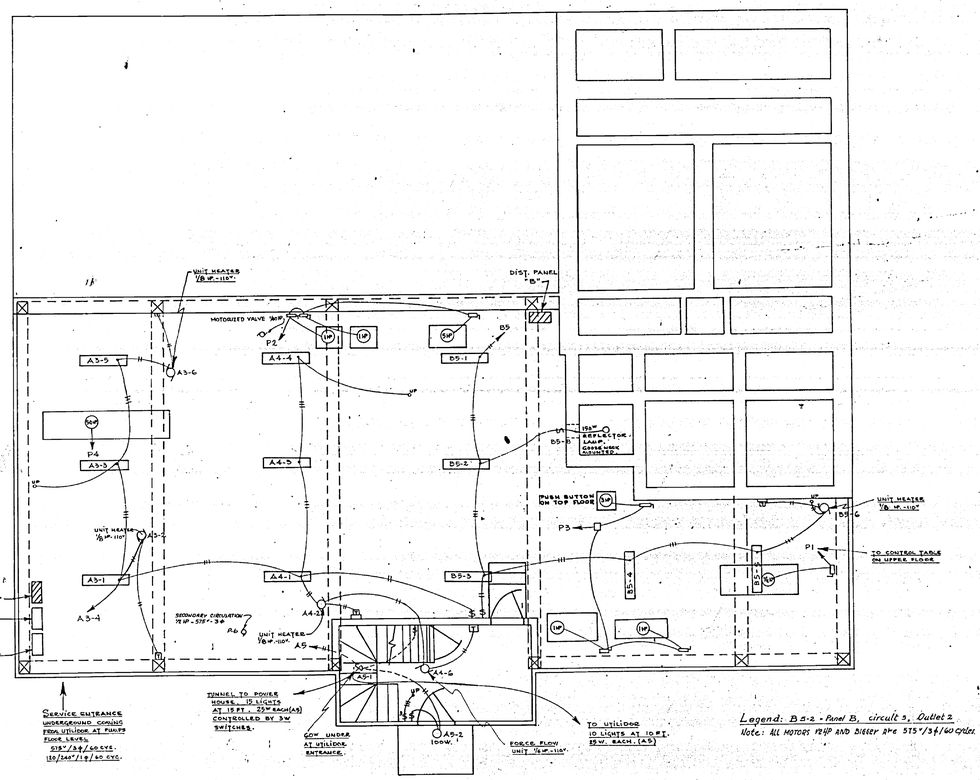
8	7	6	5	4	3	2	1							1	2	3	4	5	6	7
							½	½	1	15	15	2	100	½	½	½	½	½	100	15
⅞	⅞	½	½	½	½	½	½	½	3	15	15	4	½	½						
15A	P	⅞	½	½	½	½	½	½	5	15	15	6	½		½	½	½	100		
		S	P	A	R	E			7	15	15	8			S	P	A	R	E	

PANEL "A"

9	8	7	6	5	4	3	2	1							1	2	3	4	5	6	7	8	9
P	P	P	P	P	P	P	½	½	1	15	15	2	100	½	½	½	½	½	½	½	½	½	⅞
				⅞	⅞	½	½	½	3	15	15	4	½	½	½					S	P	A	R	E
				100	15	15	½	½	5	15	15	6	½			½	½	½	½				
							⅛	⅛	7	15	15	8	100	100	100	100	100	100	100	100			
									100	9	15	15	10	Pilot									
								⅛	11	15		15											
									13			14											



200A MAIN SWITCH 575Y/3 PH. 4 WIRE 150A FUSE	POWER PANEL 'P'	DRY TYPE TRANS 575Y/115/230 25 kVA
50 HP AUTOTRANS. WITH PUSHBUTTON STARTER IN COVER	15 kVA BREAKER	MAIN WIRING 200A SWITCH 3 WIRE NEUTRAL 200A BUSS
		40 TO PANEL 'B'
		15 15 15 15
		15 15 15 15
		15 15 15 15



Legend: B 5-2 - Panel B, circuit 5, Outlet 2

Note: ALL MOTORS 7½ HP AND BIGGER ARE 575 Y/3Ø/60 CYCLES.

PUMPS FLOOR

AS BUILT
Certified
Frobisher Bay Consultants

REFERENCES:

ELECTRICITY: SEE DRAWINGS C-16 & C-18.
HEATING: SEE DRAWINGS C-14 & C-15.

NEW TOWNSITE, FROBISHER BAY N.W.T.

FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
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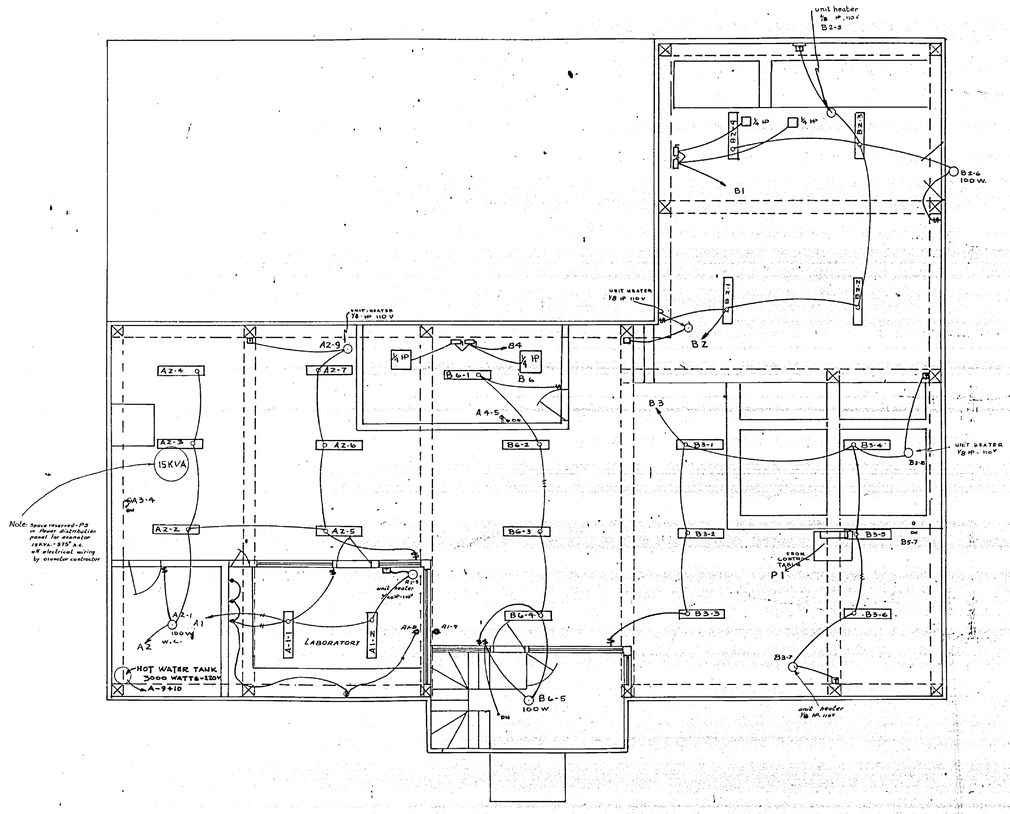
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO

JOB NUMBER CA-62-1-28
DIVISION C DRG NUMBER 17

TITLE
WATER TREATMENT PLANT
PUMPS FLOOR
ELECTRICITY

DRAWN BY Yvonne Brassard | DESIGNED BY R. Stott P. Eng. | APPROVED BY [illegible] | SCALE 1/4" = 1'-0" | DATE 23 April 1963

POOR ORIGINAL
30X



FILTERS FLOOR

REFERENCES:

ELECTRICITY: SEE DRAWINGS C-16 & C-17

HEATING: SEE DRAWINGS C-14 & C-15

AS BUILT
Certified
Frobisher Bay Consultants

NEW TOWNSITE, FROBISHER BAY N.W.T.

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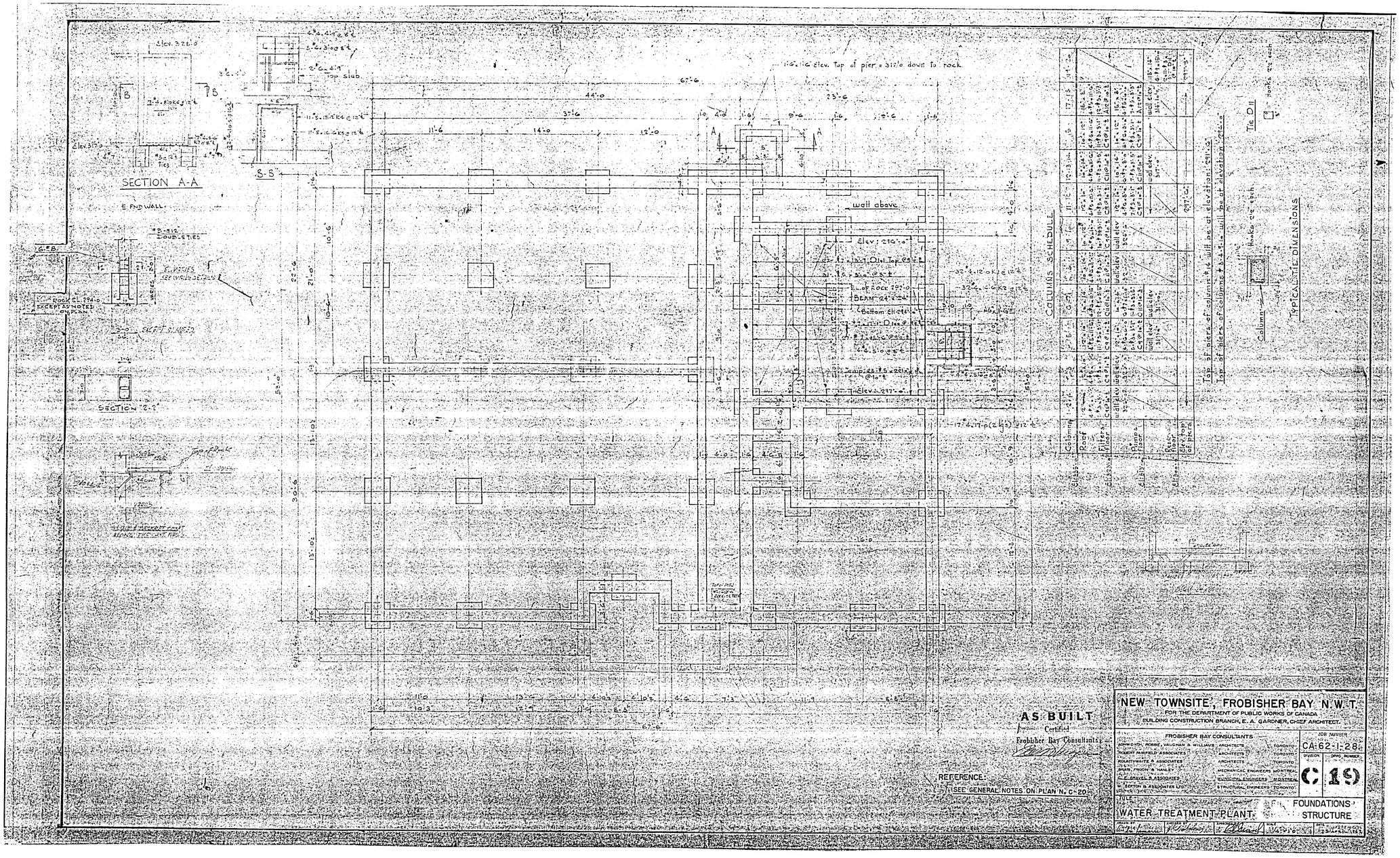
FROBISHER BAY CONSULTANTS			JOB NUMBER
ASHWORTH, ROBBIE VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO	CA-62-1-28
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION C / DRWG NUMBER 18
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO	
BRAIS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

TITLE
WATER TREATMENT PLANT / FILTERS FLOOR ELECTRICITY

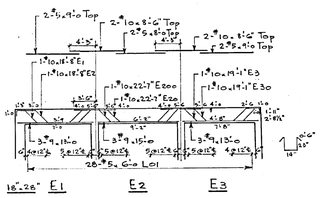
DRAWN BY	CHECKED BY	APPROVED BY	SCALE	DATE
Thom Brown	F. Sotz RD	A. L. Gravel	1/4"-1'-0"	23 April 1962

POOR ORIGINAL

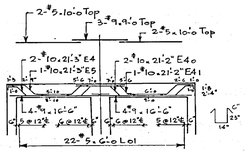
30X



POOR ORIGINAL 30X

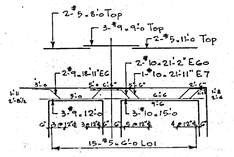


16"x 28" E1 E2 E3



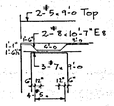
16"x 28" E4 E5

Spacers : 8-#10 x 1'-2"

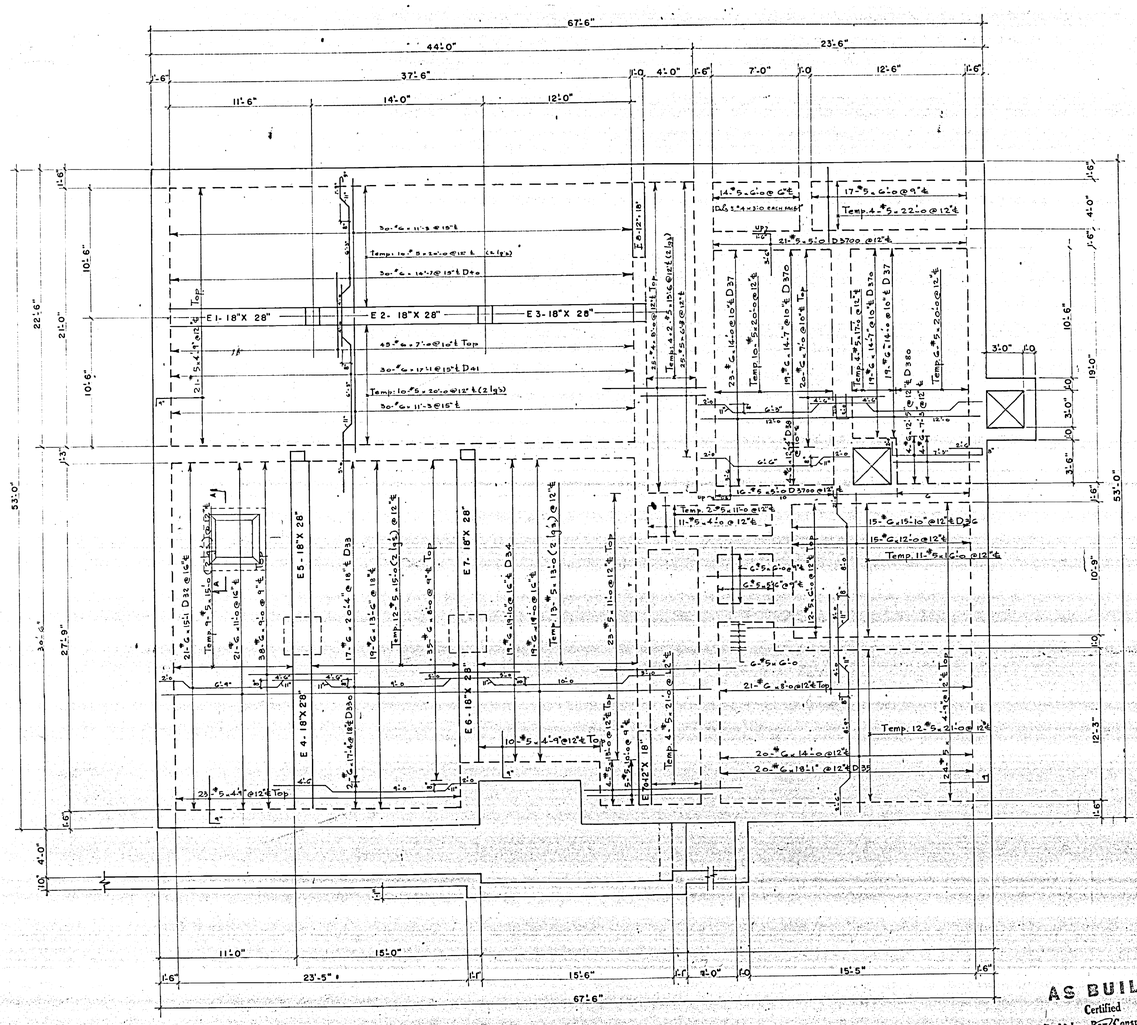


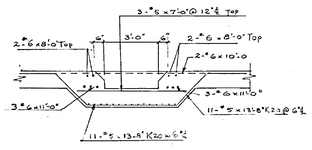
16"x 28" E6 E7

Spacers : 3-#10 x 1'-2"



12"x 18" E70 - E8





SECTION A-A

GENERAL NOTES ON REINFORCING STEEL

- CONCRETE 3000# 28 days.
- REINFORCING STEEL: Intermediate steel deformed 20000# tensile.
- In all structural member afected by water, the concrete protection over the reinforcing shall be 1½ inches.
- The Top steel to be supported by high metal chair at least one every square 2ft by 2ft.
- (CEMENT-SAND-3) mixture (wearing surface on top of utilidor at places where trafic will pass over.

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ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO	
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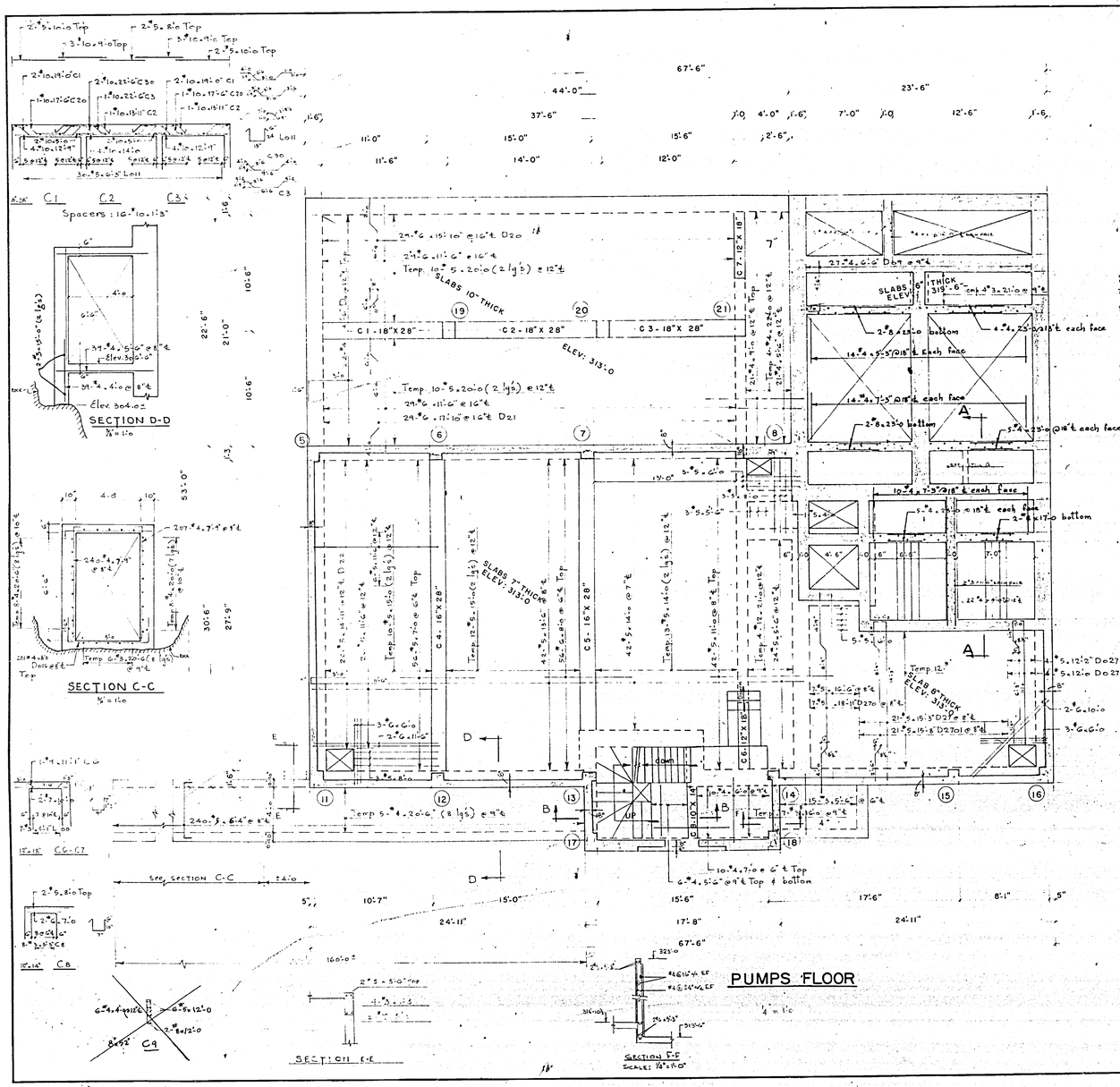
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

TITLE: WATER TREATMENT PLANT RESERVOIRS FLOOR STRUC.

DRAWN BY	CHECKED BY	APPROVED BY	SCALE	DATE
Ewd S Lemaire	[illegible]	[illegible]	¼"=1'-0"	23 April 1962

POOR ORIGINAL
30X



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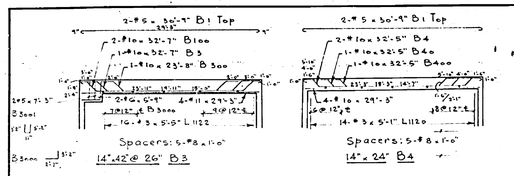
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO
BRAIS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL
W. SEFTON & ASSOCIATES LTD	STRUCTURAL ENGINEERS	TORONTO

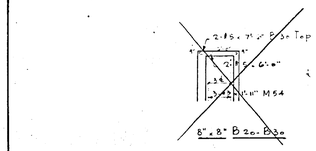
JOB NUMBER: CA-62-1-28
DIVISION: C
DRAWING NUMBER: 21A

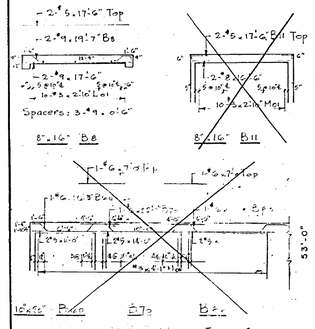
TITLE: WATER TREATMENT PLANT — PUMPS FLOOR STRUCT.

DRAWN BY: [illegible] CHECKED: [illegible] APPROVED: [illegible] SCALE: 1/4" = 1'-0" DATE: APRIL 1962

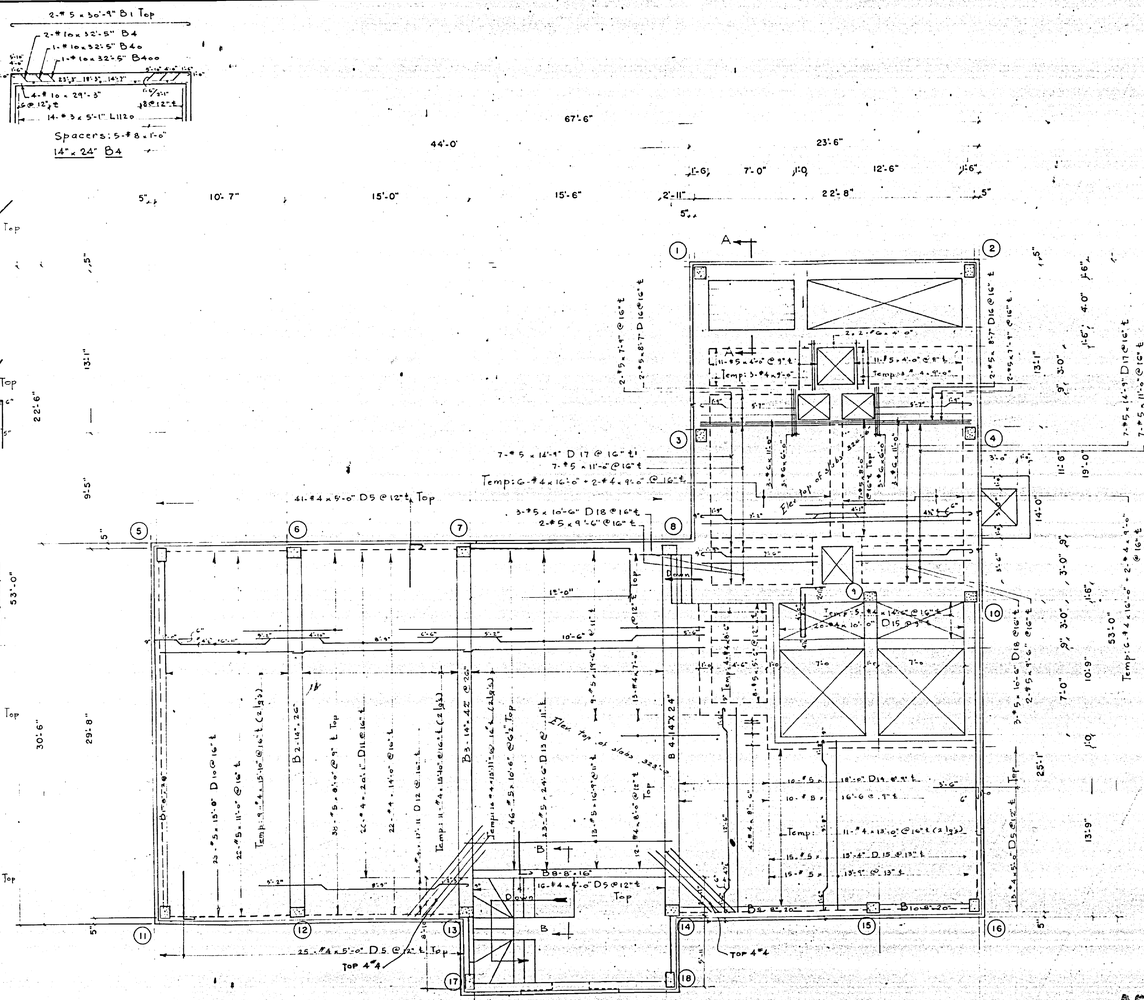
POOR ORIGINAL
30X

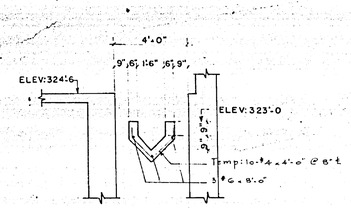




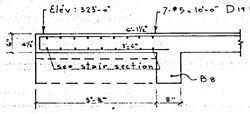


Place first stirrup at 6" from support

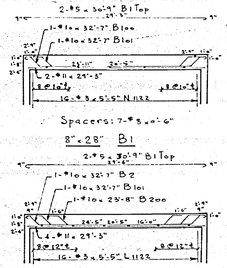




SECTION A-A



SECTION "B-B"



Note: WALL 8" THICK ADDED AROUND THE BUILDING
BEAMS B-20, B-30, B-50, B-70, B-80, B6, B-7 CANCELLED

AS BUILT
Certified Correct
Frobisher Bay Consultants

FILTERS FLOOR All slabs 6" thick

REFERENCE: SEE GENERAL NOTES ON PLAN No. C-20

NEW TOWNSITE, FROBISHER BAY N.W.T.

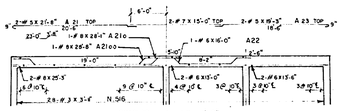
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT

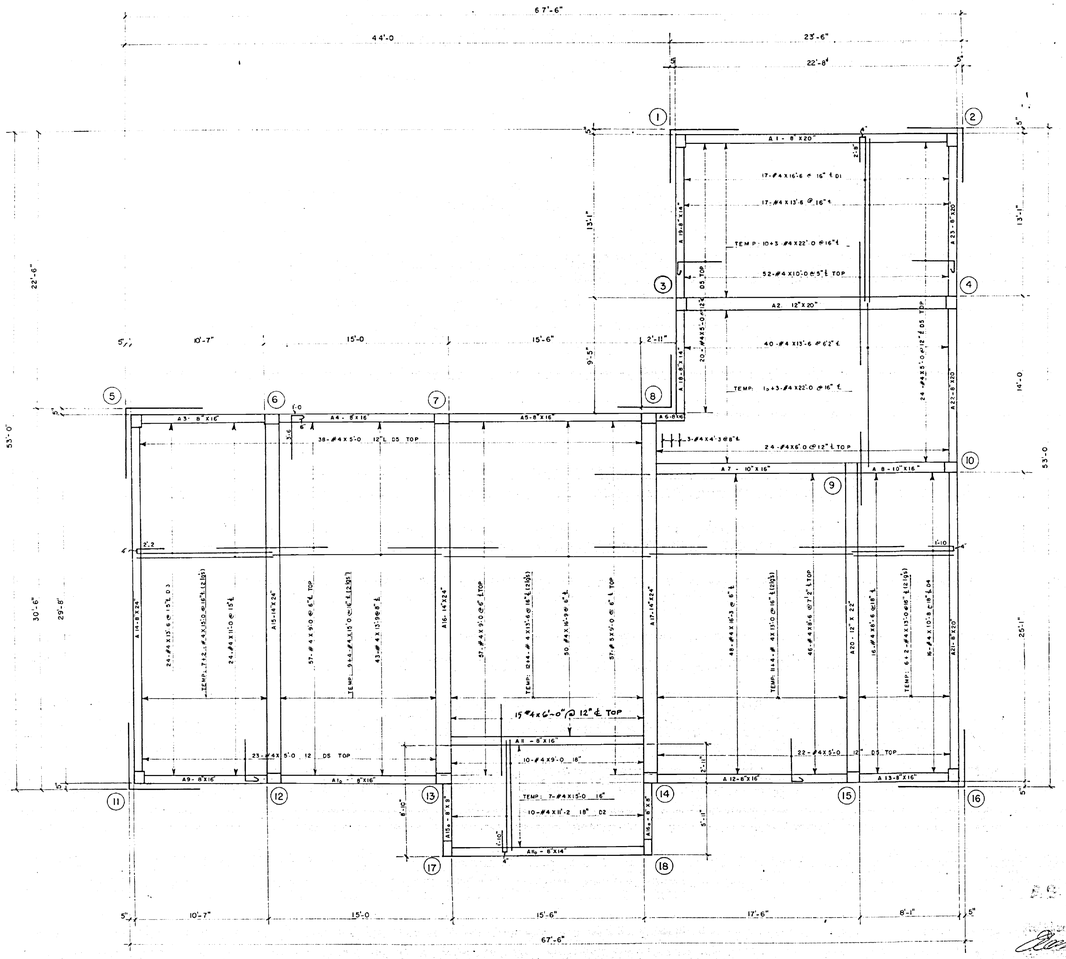
FROBISHER BAY CONSULTANTS			JOB NUMBER
ASHWORTH, ROBBIE VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO	CA-62-1-28
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION / DRG NUMBER
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO	C22 A
BRAIS, PRION & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
C.E. BRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

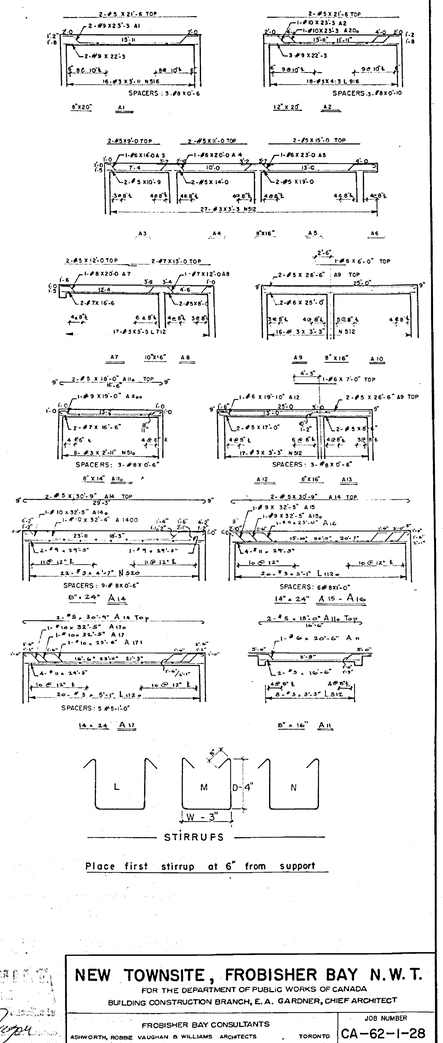
TITLE
WATER TREATMENT PLANT FILTERS FLOOR STRUCT.

DRAWN BY	CHECKED BY	APPROVED BY	SCALE	DATE
Yvon Bisaillon	J.B. Robert	C. Allard	As noted	April 1963

POOR ORIGINAL
30X







REFERENCE:
SEE GENERAL NOTES ON PLAN No C-20

NEW TOWNSITE, FROBISHER BAY N.W.T.

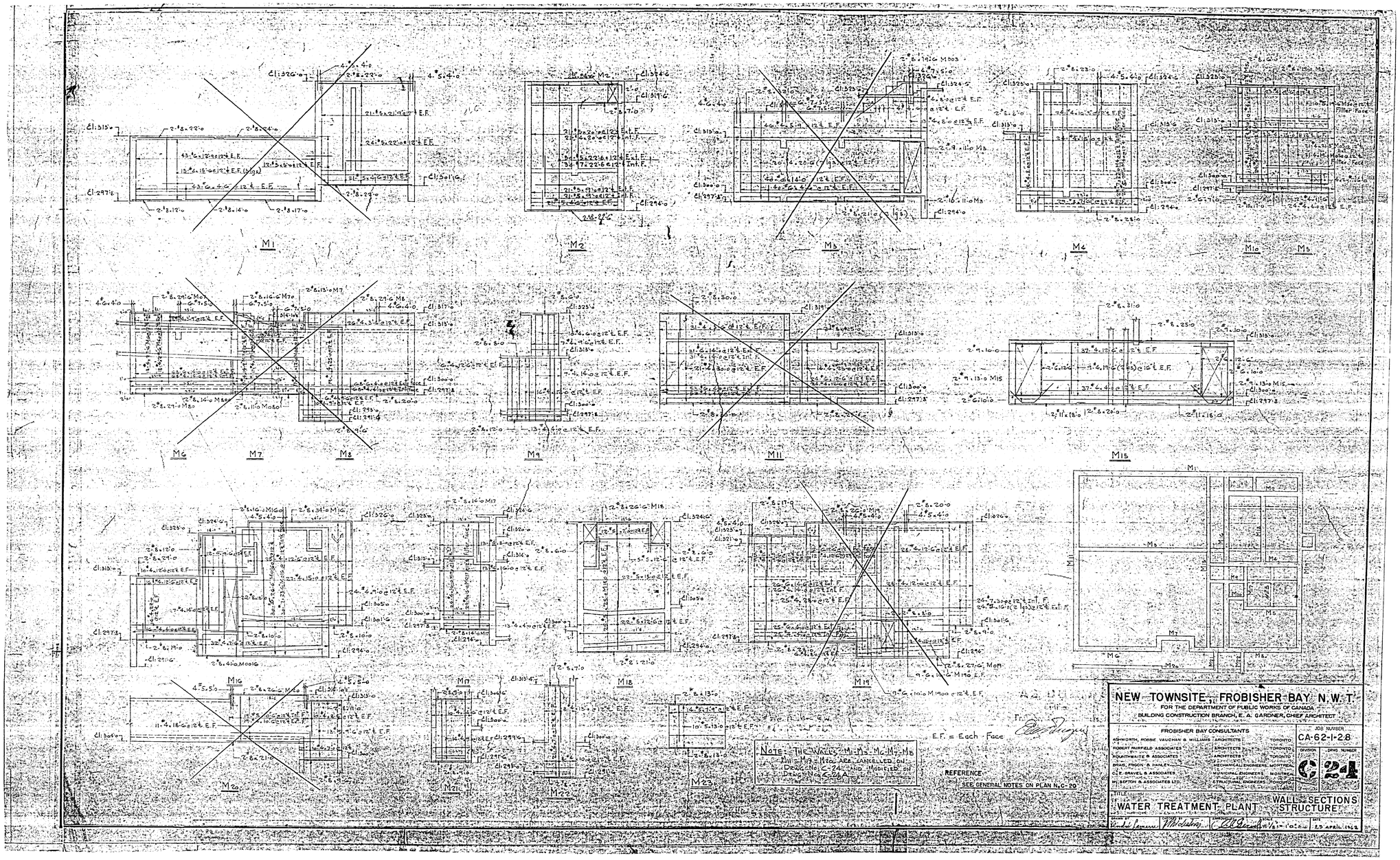
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E.A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS			JOB NUMBER
ASHWORTH, ROBBIE VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO	CA-62-1-28
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION C / DRG NUMBER 23
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO	
BRAIS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

TITLE
WATER TREATMENT PLANT ROOF - STRUCT.

DRAWN BY Tyron Edwards | CHECKED BY J.B. Hunt | APPROVED A.E. Gardner | SCALE As noted | DATE 25 April 1962

POOR ORIGINAL
30X



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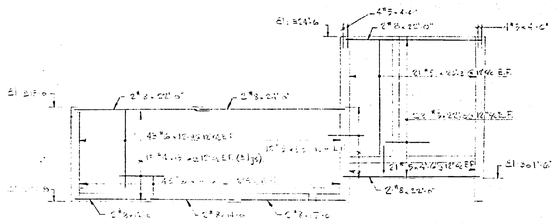

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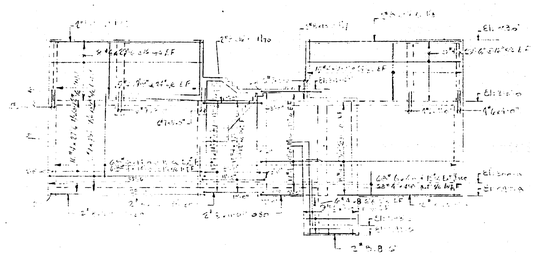

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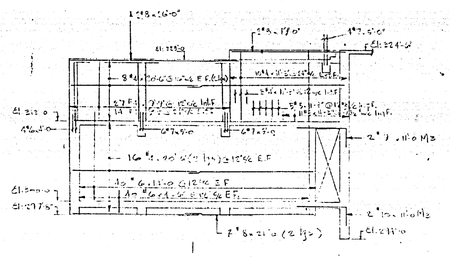

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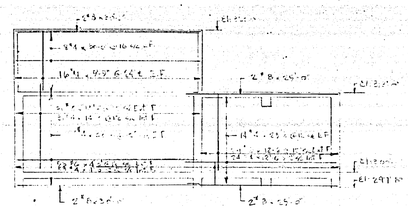

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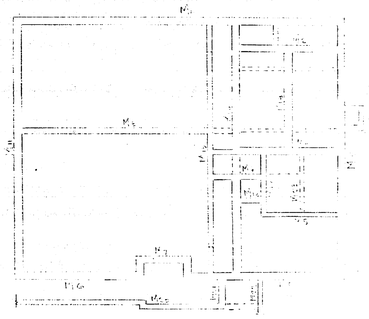

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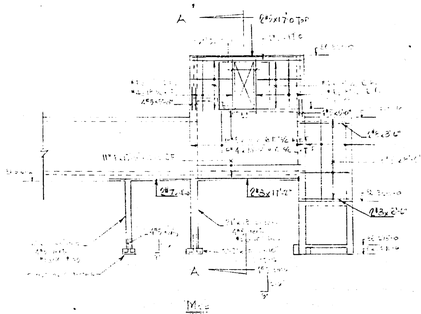

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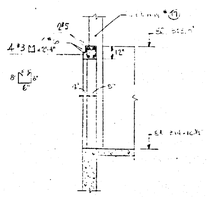
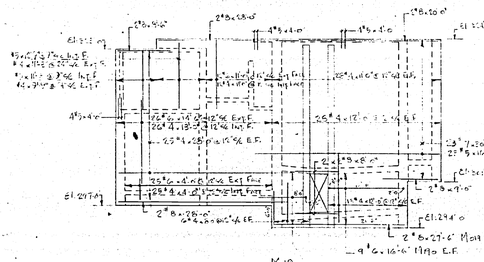


SECTION A-A
SCALE: 1/2"=1'-0"



M10

Note: This drawing supersedes this item only for the walls shown hatched

Note: All the exterior walls have at the left & end a 2"x6" chase to permit the setting of insulating panels

E.F. = Exterior Face

AS BUILT
Certified
Frobisher Bay Consultants

NEW TOWNSITE, FROBISHER BAY N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS		
ASHWORTH, ROBBIE VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO
BRAIS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO

JOB NUMBER CA-62-1-28
DIVISION C | DRAWING NUMBER 24 A

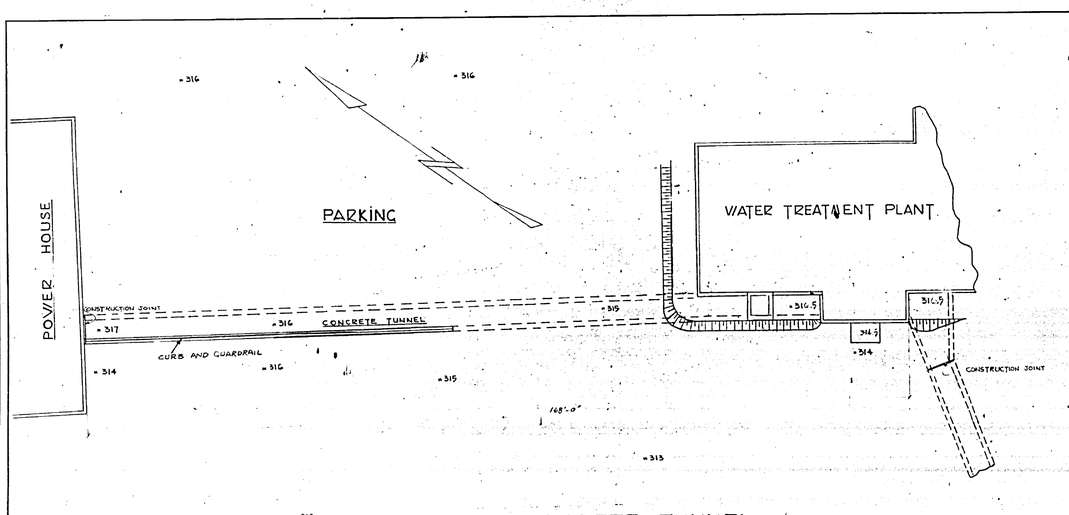
TITLE: WATER TREATMENT PLANT — WALL SECTIONS STRUCTURE

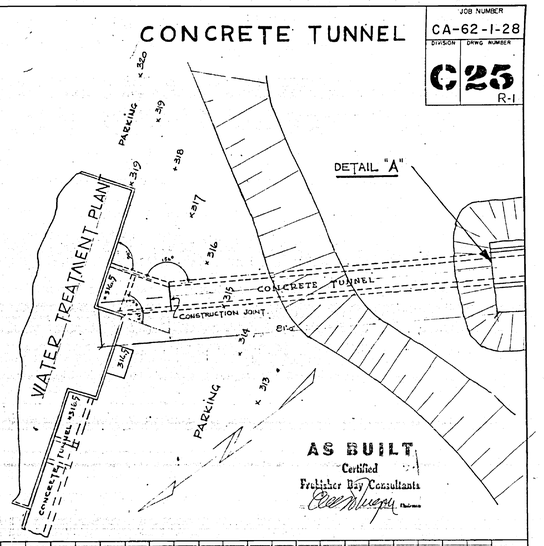
DRAWN BY Roger Tetrault | CHECKED BY | APPROVED J. Boyd | SCALE 1/2"=1'-0" | DATE APRIL 1963

POOR ORIGINAL
30X

JOB NUMBER CA-62-1-28
DIVISION C DRWG NUMBER 25 R-1

CONCRETE TUNNEL

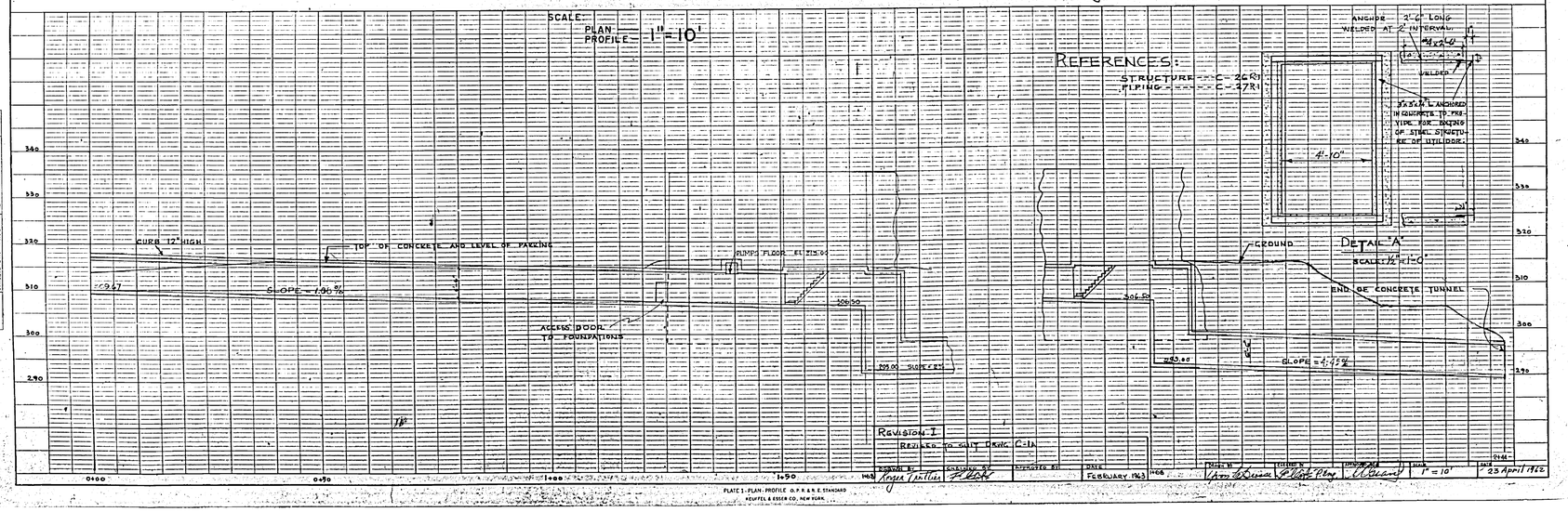




AS BUILT
Certified
Freltzher Ray Consultants

CONCRETE TUNNEL

SCALE
PLAN 1" = 10'
PROFILE 1" = 10'



REFERENCES:
STRUCTURE ---- C-26R1
PIPING ---- C-27R1

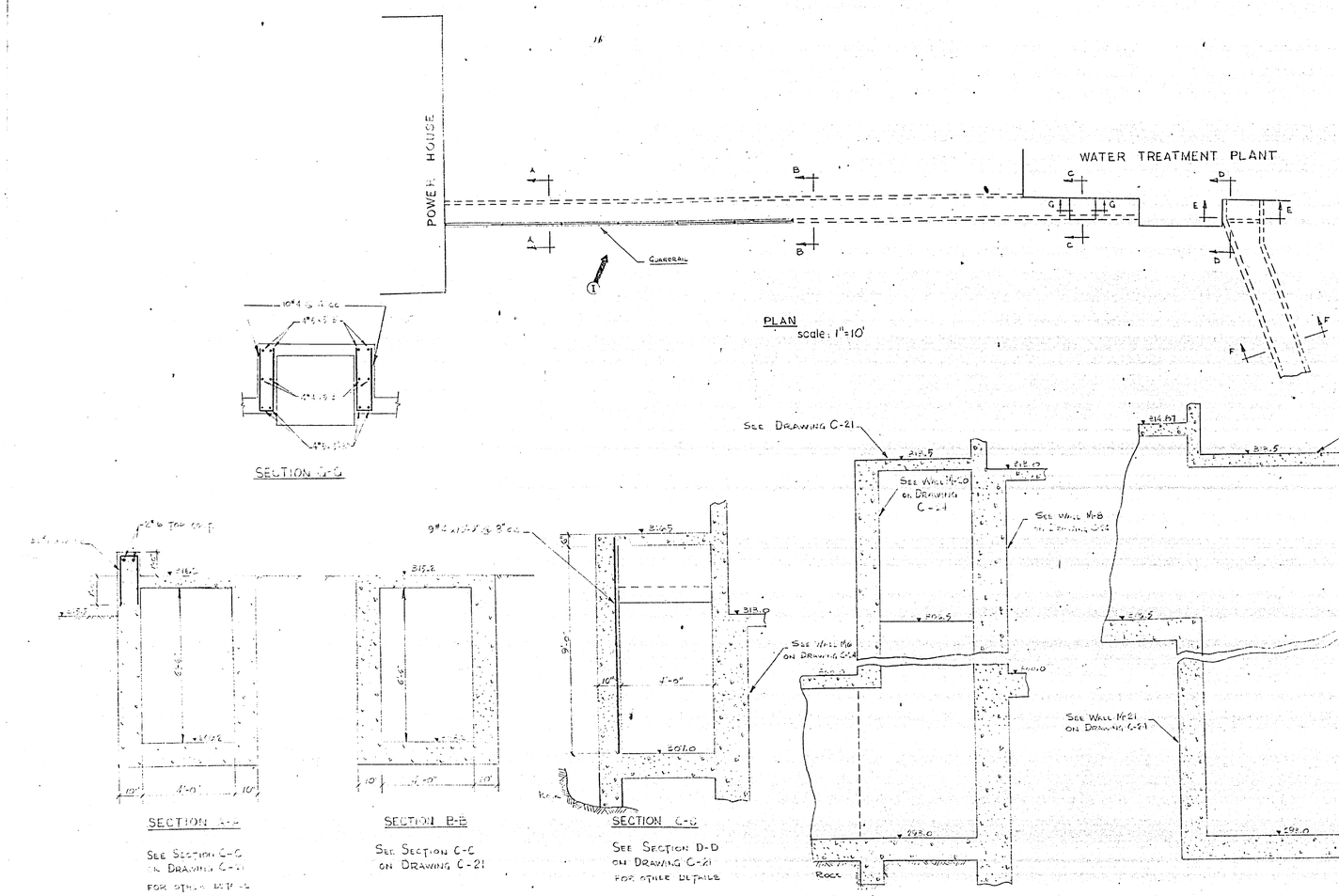
REVISIONS I
REVISED TO SUIT DRWG C-1A

DESIGNED BY Roger Tartler CHECKED BY [illegible]
DETAILED BY DATE FEBRUARY 1963 TRACED BY [illegible] CHECKED BY [illegible]
APPROVED BY [illegible] DATE 25 April 1962

PLATE 1-PLAN-PROFILE O.P.R.R.& R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

POOR ORIGINAL

30X



AS BUILT
Certified
Frobisher Bay Consultants

NEW TOWNSITE, FROBISHER BAY N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS			JOB NUMBER
ASHWORTH, ROBBIE, VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO	CA-62-1-28
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION: C / DRWG NUMBER: 26 R-1
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO	
MAAS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

Revision 1
- REVISED TO SHIFT DWGS C-21 & C-25 R1
- ELIMINATE SLIT TRENCH & CURB

TITLE: WATER TREATMENT PLANT — CONCRETE TUNNEL STRUCT.

DRAWN BY: Kevin Tuttle | TRACED BY: [illegible] | APPROVED BY: | DATE: FEBRUARY 1963
DESIGN BY: [illegible] | CHECKED BY: [illegible] | APPROVED: [illegible] | SCALE: AS NOTED | DATE: 23 APRIL 1963

POOR ORIGINAL
30X

LEGEND :

	Pipe	with	Insulation
1) RECIRCULATION	5"		5"
2) "	5"		5"
3) Water line to Power House	5"		5"
4) HEATING	3"		5"
5) "	3"		5"
6) ELECTRICITY	1½"		
7) "	1½"		
8) TELEPHONE	¾"		
9) HEATING	6"		12"
10) "	6"		12"
11) "	6"		12"
12) "	6"		12"
13) SEWAGE	10"		
14) Water line to Town	10"		14"
15) Sewage from Septic Tank	8"		
16) Waste pipe	4"		
17) Drain line	2"		

POWER HOUSE

WATER TREATMENT PLANT

PLAN
scale : 1"=10'

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

CHECKERED PLATE

SECTION E-E

SECTION F-F

Scale of all the Sections ½" = 1'-0"

AS BUILT
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Frobisher Bay Consultants

Revision I
Piping Arrangement Revised
Checkered Plate Added

NEW TOWNSITE, FROBISHER BAY N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS

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ARMSTRONG & ASSOCIATES	ARCHITECTS	TORONTO
MACKINNON & HENLEY	MECHANICAL ENGINEERS	MONTREAL
J. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL
M. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO

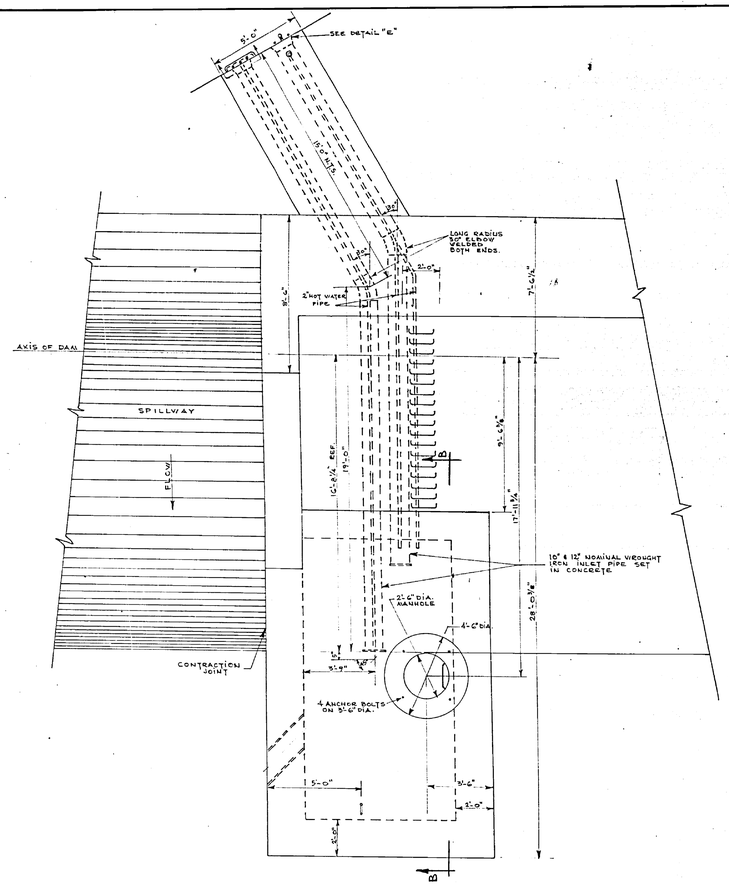
JOB NUMBER CA-62-1-28
DIVISION C
DRAWING NUMBER 27
R-1

TITLE
WATER TREATMENT PLANT CONCRETE TUNNEL PIPING

DRAWN BY Gene Tolliver | CHECKED BY F. Kats | APPROVED BY | DATE FEBRUARY 1963 | DESIGN BY [illegible] | DRAWN BY [illegible] | APPROVED BY [illegible] | SCALE AS NOTED | DATE [illegible]

POOR ORIGINAL

30X



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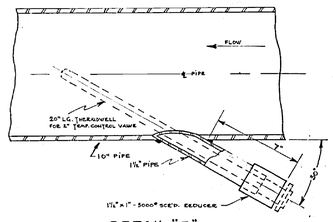
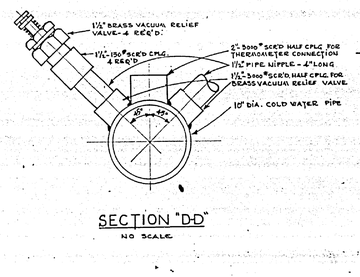


DETAIL "F"
SCALE: 3/4"=1'-0"



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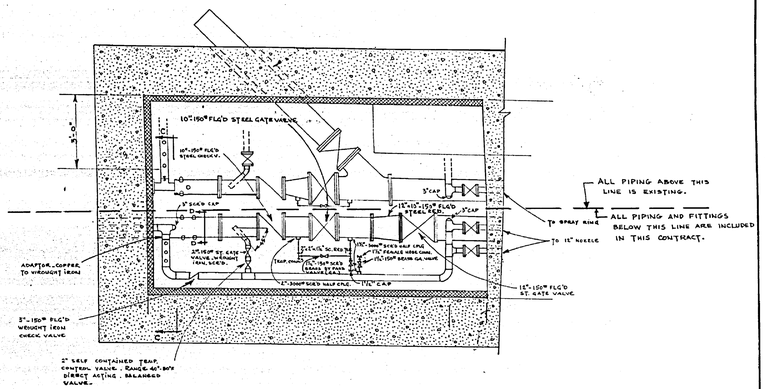
NO SCALE



SECTION A-A
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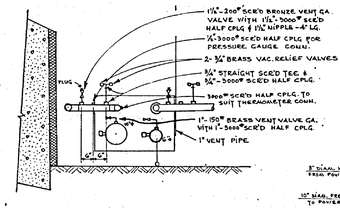
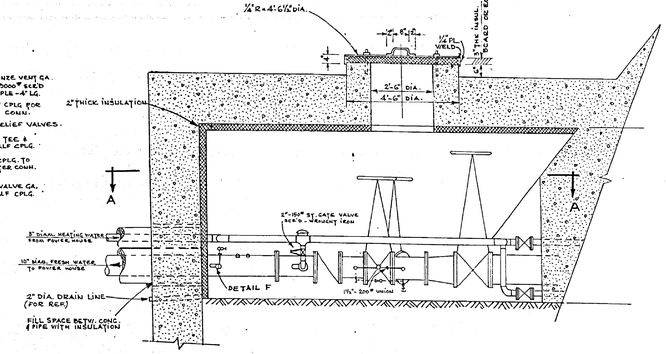


SECTION C-C
SCALE: 1/2"=1'-0"



SECTION "B-B"
PIPING ARRANGEMENT AT DAM VALVE HOUSE
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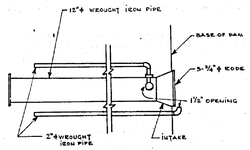

DETAIL "E" ALREADY BUILT (for information only)
SCALE: 1½"=1'-0"

AS BUILT
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Frobisher Bay Consultants

NEW TOWNSITE, FROBISHER BAY N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS			JOB NUMBER
ASHWORTH, ROBBIE VAUGHAN & WILLIAMS	ARCHITECTS	TORONTO	CA-62-1-28
ROBERT FAIRFIELD ASSOCIATES	ARCHITECTS	TORONTO	DIVISION / DRG NUMBER
ROUNTHWAITE & ASSOCIATES	ARCHITECTS	TORONTO	C 28
BRAIS, FRIGON & HANLEY	MECHANICAL ENGINEERS	MONTREAL	
C. E. GRAVEL & ASSOCIATES	MUNICIPAL ENGINEERS	MONTREAL	
W. SEFTON & ASSOCIATES LTD.	STRUCTURAL ENGINEERS	TORONTO	

TITLE
WATER SUPPLY DAM VALVE HOUSE PIPING

DRAWN BY	CHECKED BY	APPROVED BY	SCALE	DATE
Jon Hobbs	J B Robert	J E Gardner	As noted	23 April 1962

POOR ORIGINAL
30X

JOB NUMBER
CA-62-1--28
DWG. NUMBER
C29
AMENDED

AS BUILT
Certified
Frobisher Bay Consultants

PLAN
ORIGINAL
PLOTTED
WATER BOOK
NO.
DRAWING CHECKED
AS BUILT CHECKED
DATE
BY

PROFILE
ORIGINAL
PLOTTED
WATER BOOK
NO.
DRAWING CHECKED
AS BUILT CHECKED
DATE
BY

B.M. 329.0
B.M. 324.0
DAM VALVE HOUSE
SEE DETAIL D-1
AMENDED
EXISTING WATER LINE
B.H. # 401
B.H. # 402
B.H. # 403
B.H. # 404
6" CAST IRON PIPE
LAYOUT
EXISTING 6" PIPE
EXISTING DITCH
WATER TREATMENT PLANT
ANCHOR
PLACE 8'-0" C.M.P.
DAM VALVE HOUSE

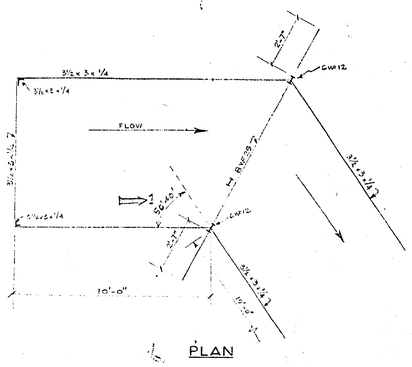
WATER SUPPLY PIPE AND
PART OF ROAD RELOCATED
SEE DWG C-29 FOR DETAILS
8th JUNE 1962

DRAWN BY
PROFILED BY
APPROVED
SCALE 1"=50'
DATE 8th JUNE 1962

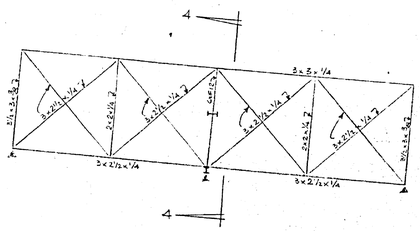
PLATE 1 - PLAN-PROFILE O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K.&E. CO. No. 348-10

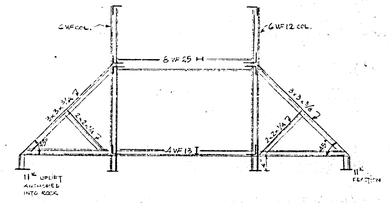
POOR ORIGINAL

30X



PLAN





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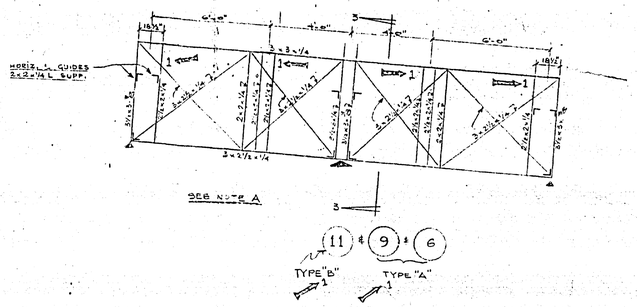

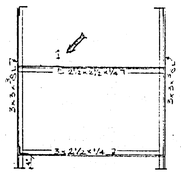

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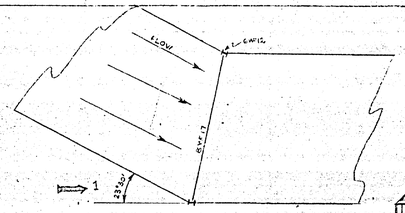
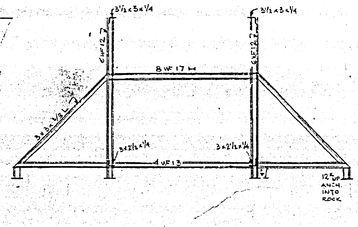
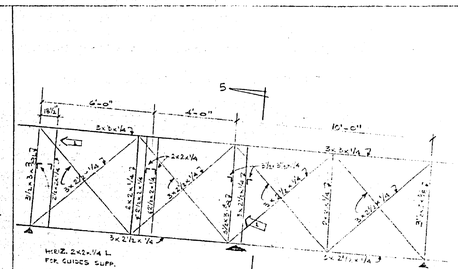
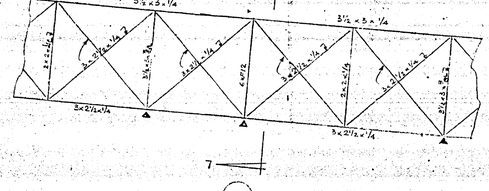
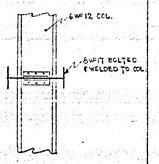
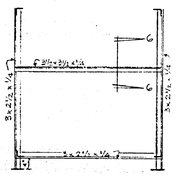




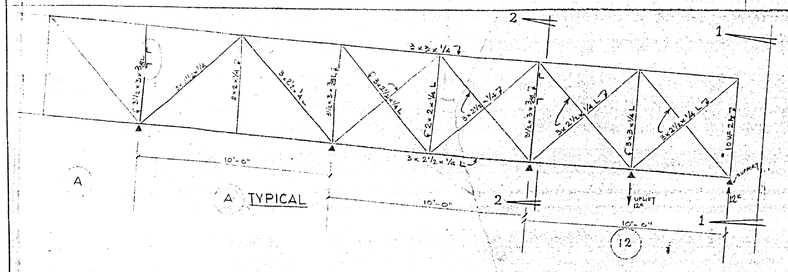




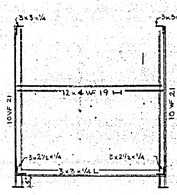




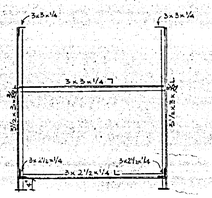
SECTION "5-5"



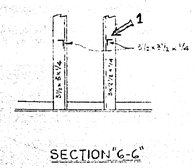
NOTE: — FOR DOUBLE ROLLER 2 x 2 x 1/4 L'S LOCATED AS SHOWN ON DWG. N° C-53C
— FOR SINGLE ROLLER 1 x 3x3x1/4 L HOR. CONNECTED TO VERTICAL MEMBER AS SHOWN ON DWG N° C-53C



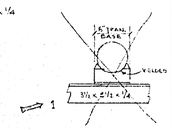
SECTION "1-1"



SECTION "2-2" TYPICAL



SECTION "6-6"



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Frobisher Bay Consultants

Revision 1
- ALL CURVED ANGLES RELOCATED TO SUIT ITEM @ 180° DEFLECTION ANGLES CHANGED

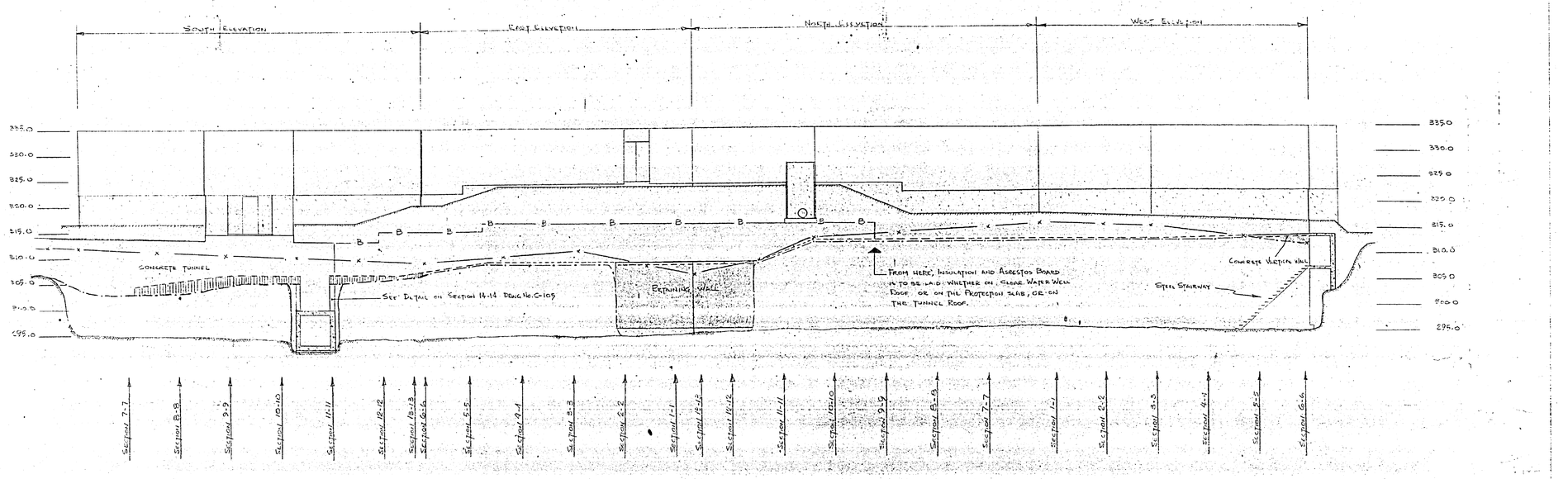
NEW TOWNSITE, FROBISHER BAY, N.W.T.

NOTE A: LOCATION OF SUPPORTS FOR PIPE GUIDES & EXPANSION JOINTS TO BE AS PER SUPPLIERS' INSTRUCTIONS

NOTE B: 3"x2½"x¼" BASE ANGLES SUPPLIED WITH CONTINUOUS 11¾" x ¼" FLAT SHELVED TO IT FOR CONNECTION OF FLOOR PANELS.

REFERENCE DRAWINGS:
C-49A, C-50A, C-51 REVISION I
C-52A, C-53C
C-53B REVISION I

POOR ORIGINAL
30X



NOTES- SECTIONS INDICATED ABOVE ARE SHOWN ON THE DRWGS NO: C-103 AND C-104
- PROVIDE WEEPING HOLES AT JUNCTION BETWEEN PROTECTION SLAB AND ROCK AT EVERY LOW POINTS.
- THE PROTECTION SLAB SHALL HAVE A MINIMUM SLOPE OF ¼"/1-0" TOWARD THE ROCK

LEGEND

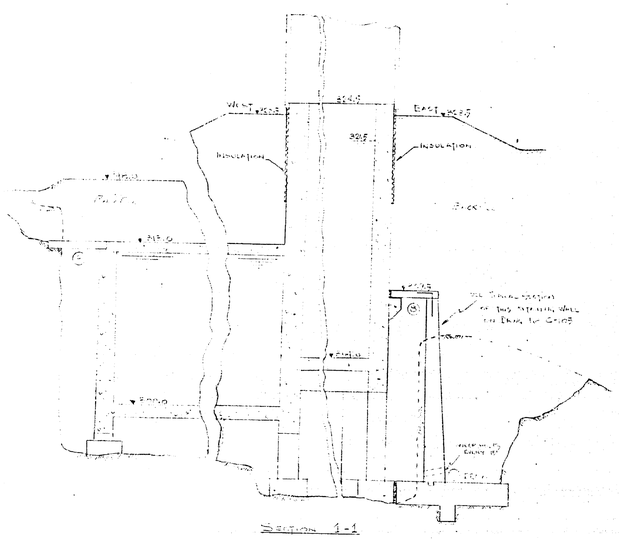
- BACKFILL
- ROCK AT FOUNDATIONS ELEVATION
- CONNECTION LINE BETWEEN WALL & SLAB
- ROCK ON WHICH THE SLAB OR THE WALL IS TO BE LAID
- SLOPING PROTECTION SLAB
- HORIZONTAL PROTECTION SLAB
- PROTECTION SLAB ON VERTICAL WALL
- A ——x——x—— ELEVATION OF ORIGINAL ROCK
- ——B——B—— BOTTOM OF INSULATION AND ASBESTOS BOARD ON EXTERIOR WALL

AS BUILT
Certified
Frobisher Bay Consultants
Date

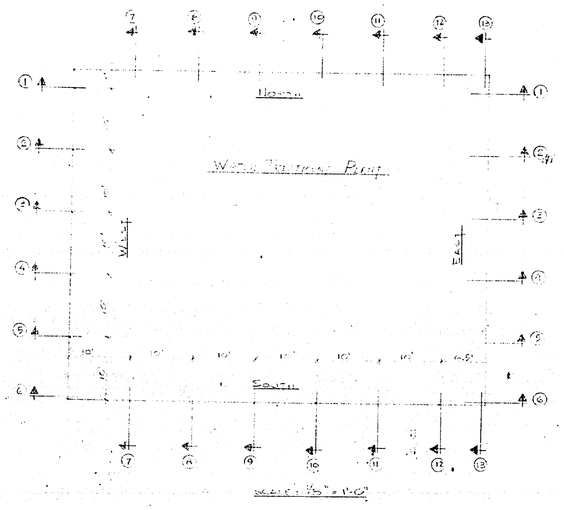
IMPORTANT
THIS PLAN IS FOR INFORMATION ONLY. CONSTRUCTION DRAWS TO BE ISSUED WHEN EXACT FIELD CONDITIONS WILL BE KNOWN

NEW TOWNSITE - FROBISHER BAY N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E.A. GARDNER, CHIEF ARCHITECT
FROBISHER BAY CONSULTANTS — JOB NUMBER CA-62-1-28
DIVISION — DRWG NUMBER C-102
WATER TREATMENT PLANT — OUTSIDE PROTECTION SLAB
DRAWN — CHECKED — SCALE 1/4"=1'-0" — FEBRUARY 63

POOR ORIGINAL
30X

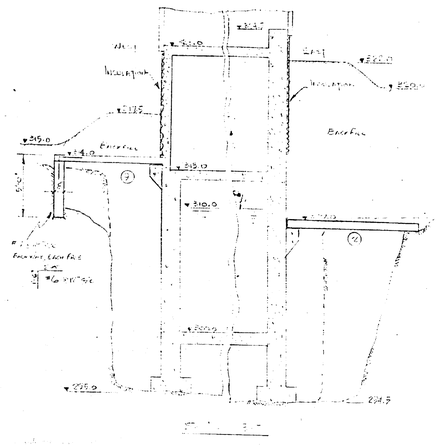


SECTION 1-1

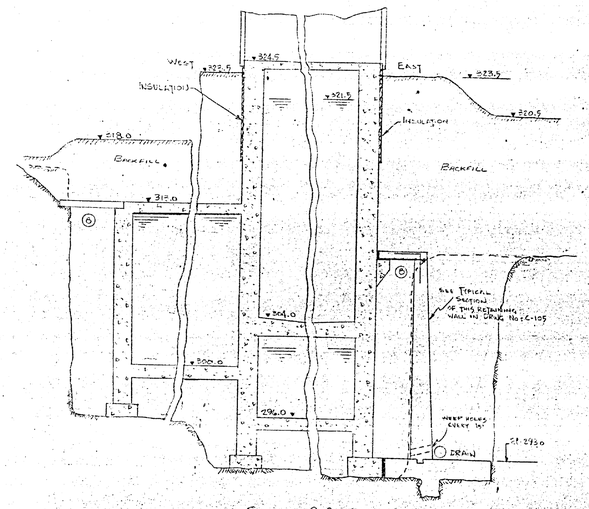


WEST WALL PLAN

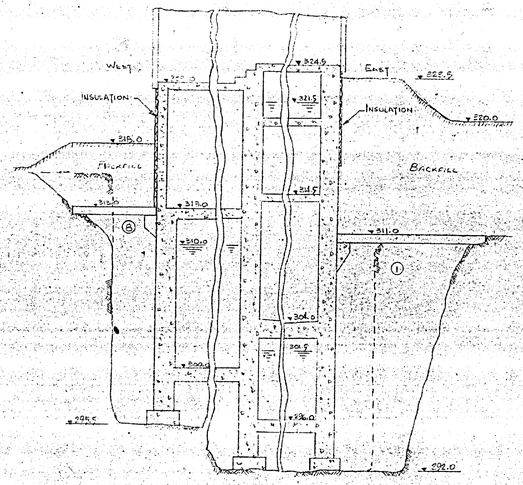
SCALE: 1/8" = 1'-0"



SECTION 4-4



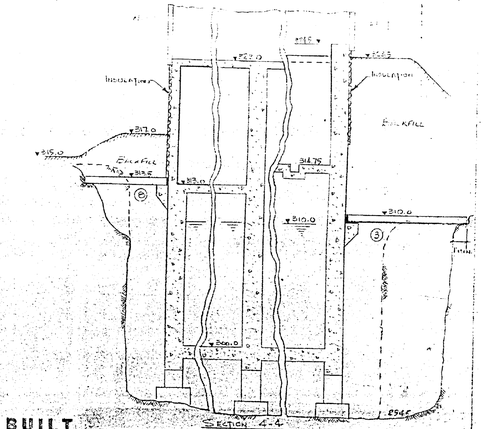
SECTION 2-2



SECTION 3-3

SCALE OF ALL THE SECTIONS: 1/4"-1'-0"

Note:- THE ENCIRCLED NUMBERS UNDER THE SLABS REFER TO THE SCHEDULE FOR SLABS ON DRWG No. C-105



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IMPORTANT
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NEW TOWNSITE, FROBISHER BAY, N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
PUBLIC WORKS CONSTRUCTION BRANCH, E.A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS

JOB NUMBER GA-62-1-28

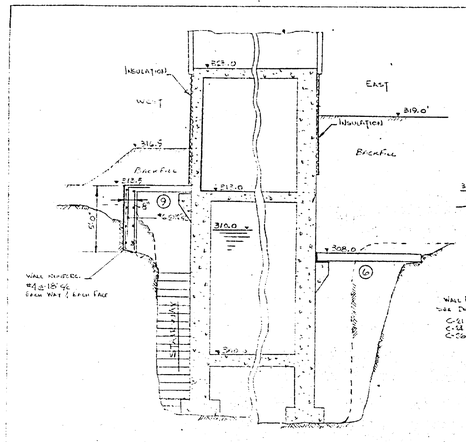
DRWG NUMBER C103

TITLE WATER TREATMENT PLANT - OUTSIDE PROTECTION SLAB

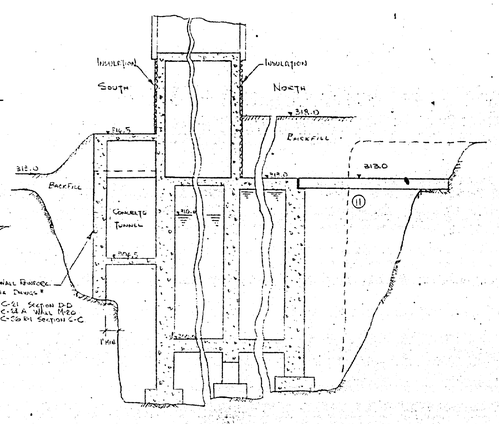
DATE FEBRUARY 1963

POOR ORIGINAL

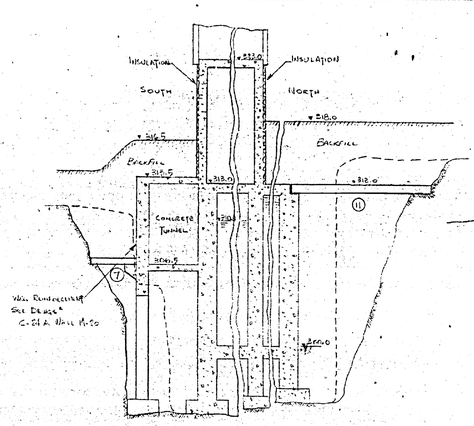
30X



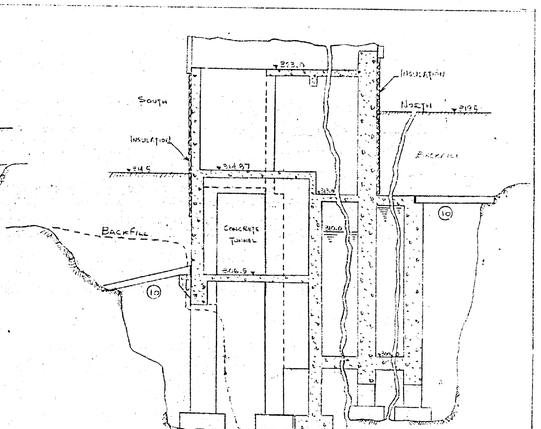
SECTION 7-7



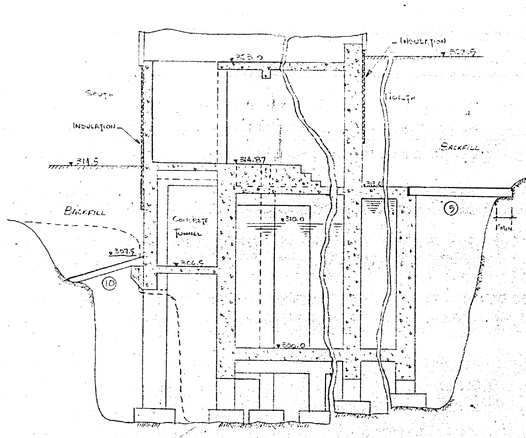
SECTION 8-8



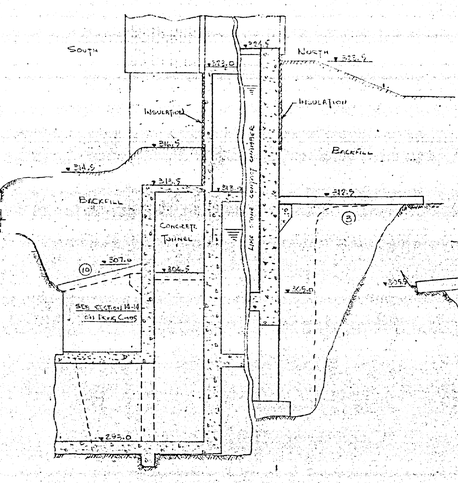
SECTION A-A



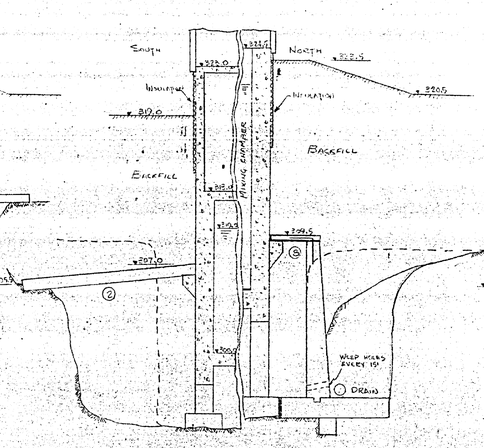
SECTION 9-9



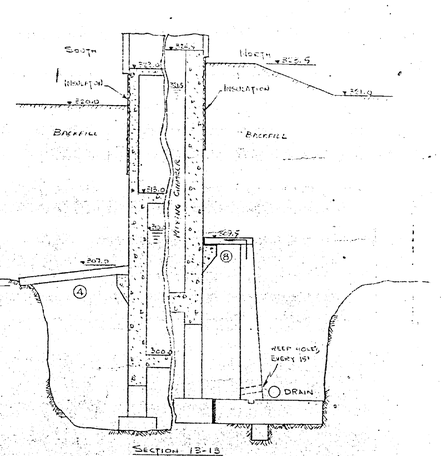
SECTION 10-10



SECTION 11-11



SECTION 12-12



SECTION 13-13

SCALE OF ALL THE SECTIONS : 1/4" = 1'-0"

Note -
THE ENCIRCLED NUMBERS UNDER THE SLABS REFER TO THE SCHEDULE FOR SLABS ON DRAWING No C-1105.

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Frobisher Bay Consultants

IMPORTANT
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NEW TOWNSITE, FROBISHER BAY, N.W.T.
FOR THE DEPARTMENT OF PUBLIC WORKS OF CANADA
BUILDING CONSTRUCTION BRANCH, E. A. GARDNER, CHIEF ARCHITECT

FROBISHER BAY CONSULTANTS

JOHN B. PARKIN ASSOCIATES	ARCHITECTS	TORONTO
ROBERT SAMUEL D. ASSOCIATES	ARCHITECTS	TORONTO
MACDONALD & MACDONALD	ARCHITECTS	TORONTO
MACKINNON & MACKINNON	MECHANICAL ENGINEERS	MONTREAL
C. E. BRAVEL & ASSOCIATES	MECHANICAL ENGINEERS	MONTREAL
MCNEELY & ASSOCIATES	STRUCTURAL ENGINEERS	TORONTO

F. JOB NUMBER	CA-62-1-28
DRAWING NUMBER	C104

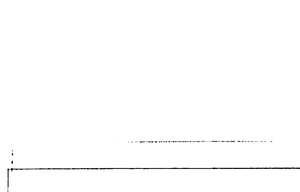
TITLE: WATER TREATMENT PLANT - OUTSIDE PROTECTION SLAB

DRAWN BY	DESIGNED BY	TRACED BY	SCALE	DATE
Kaye Lamb	E.A.G.	W. Allen	1/4" = 1'-0"	FEBRUARY 1963

POOR ORIGINAL
30X

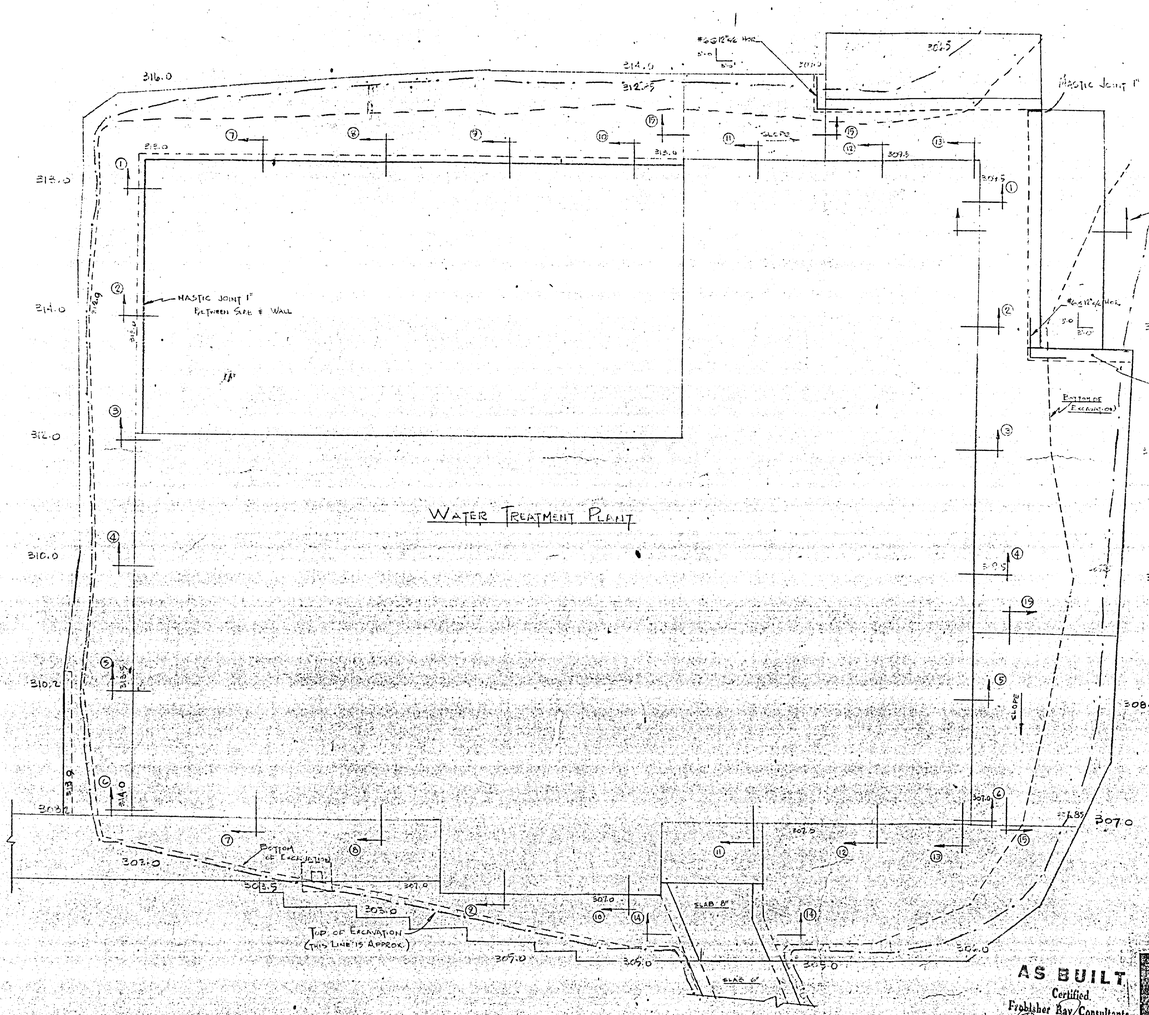
Schedule for Slabs

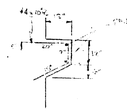
M.K.	Span	Thickness	Main Reinforcing	Temp. Reinf.	Height at Section
①	12'-0"	12"	#5@5½" Alter.	#5@12"c/c	14'
②	11'-0"	12"	#6@6½" Alter.	#5@12"c/c	12'
③	10'-0"	11"	#7@5½" Alter.	#5@12"c/c	12.5'
④	9'-0"	11"	#7@5½" Alter.	#5@12"c/c	12'
⑤	8'-0"	11"	#7@6" Alter.	#5@12"c/c	12'
⑥	7'-0"	9"	#7@8" Alter.	#5@12"c/c	12'
⑦	5'-0"	8"	#7@12" Alter.	#5@15"c/c	12'
⑧	5'-0"	7"	#6@8" Alter.	#5@12"c/c	4'
⑨	8'-0"	7"	#6@8" Alter.	#4@12"c/c	4'
⑩	7'-0"	7"	#7@8" Alter.	#4@12"c/c	7.5'
⑪	10'-0"	10"	#7@6" Alter.	#5@12"c/c	5'



Section 14-14
Scale: ¼"=1'-0"

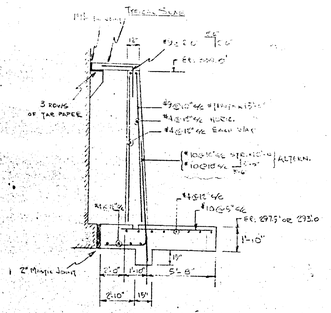
Section 15-15
N.T.S.





Typical Section
of the Retaining Wall
Scale: ¼"=1'-0"

Notes: The Exposed to Weather Reinforcing is 5/8" and Less is in accordance with the C.S.A.



Typical Section
of the Retaining Wall
Scale: ¼"=1'-0"

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Frobisher Bay Consultants

Important
This Drawg for Information only. Construction Drawgs to be issued when exact field conditions will be known.

NEW TOWNSITE - FROBISHER BAY, N.W.T.

CA-62-1-28

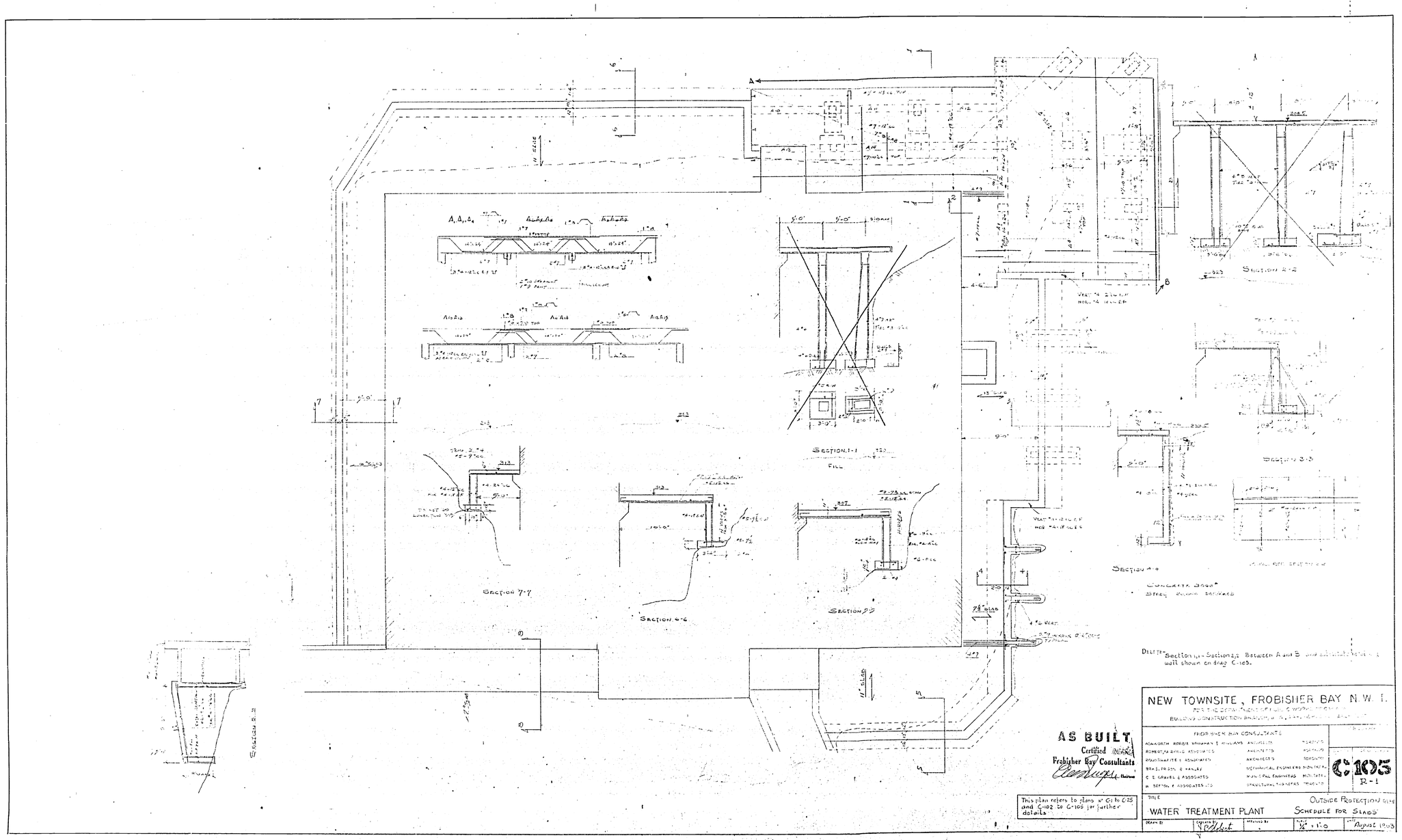
C-105

WATER TREATMENT PLANT

Project Engr. [illegible]

POOR ORIGINAL

30X



POOR ORIGINAL
30X